

# Immunophenotyping - one panel CCP\_IMM\_001

## Purpose

This test differentiates immune cell sub-populations via flow cytometry in one panel.

## Experimental Design

- **Minimum number:** 7M + 7F
- **Age at test:** Week 16
- **Sex:** Both (sexually dimorphic)

## Equipment

### Reagents and equipment for sample preparation

- Spleen Dissociation Kit (Miltenyi Biotec)
- gentleMACS Dissociator (Miltenyi Biotec)
- gentleMACS C Tubes (Miltenyi Biotec)
- FACS buffer: 2% Fetal Bovine Serum, 10mM HEPES, 2mM EDTA in HBSS without Ca<sup>2+</sup> and Mg<sup>2+</sup>
- ACK Lysis buffer: 150mM NH<sub>4</sub>Cl, 10mM KHCO<sub>3</sub>, 0.1mM Na<sub>2</sub>EDTA in H<sub>2</sub>O
- CellTrics filters 100m (Sysmex)
- BD Horizon Brilliant Stain Buffer Plus
- Anti-CD16/CD32 antibody - Fc block (BD Biosciences)

## Procedure

### Sample preparation

- Dissociate spleens enzymatically in gentleMACS C Tubes according to the Spleen Dissociation Kit protocol.
- Fill the tubes with cell suspensions up to 10 mL with FACS buffer and transfer the suspensions through 100 m cell strainer into 15mL tubes.
- Centrifuge samples at 400 g for 8 minutes at 4°C.
- Resuspend pellets in 1 mL of ACK Lysis buffer and incubate for 3 minutes at room temperature.
- Add FACS buffer up to 5 mL and filter cell suspension through the 100 m cell strainer.
- Count total number of live cells using Trypan Blue stain and Cellometer Auto T4 with Nexcelom cell counting chambers.
- Transfer 2.5x10<sup>6</sup> of live cells per well into a 96-well U bottom plate. Centrifuge plate at 400 g for 4 minutes at 4°C.
- Discard supernatant and proceed with staining.

## Staining and data acquisition

- Resuspend pellets in 50 L of staining cocktail (antibodies including Fc block (1:200) in FACS buffer containing 20% of Brilliant stain buffer):

Specificity	Fluorochrome	Clone	Catalog #	Manufacturer	Dilution
CD8a	BUV395	53-6.7	563786	BD Biosciences	1:200
CD4	BUV496	RM4-5	741050	BD Biosciences	1:400
F4/80	BUV563	T45-2342	749284	BD Biosciences	1:400
CD19	BUV615	1D3	751213	BD Biosciences	1:800
TCR	BUV661	GL3	750410	BD Biosciences	1:200
CD21/CD35	BUV737	7G6	612810	BD Biosciences	1:2000
CD44	BUV805	IM7	741921	BD Biosciences	1:400
CD5	BV421	53-7.3	562739	BD Biosciences	1:400
Viability	SYTOX Blue	-	S34857	Invitrogen	1: 20000
CD11c	BV605	N418	117334	BioLegend	1:400
Ly6G	BV650	1A8	740554	BD Biosciences	1:400
BST2 (CD317)	BV711	927	747604	BD Biosciences	1:400
Ly6C	FITC	AL-21	553104	BD Biosciences	1:800
MHCII	BB630	M5/114.15.2	624294	BD Biosciences	1:800
KLRG1	BB700	2F1	742199	BD Biosciences	1:400
CD49d	BB790	R1-2	624296	BD Biosciences	1:400
CD23	PE	B3B4	101607	BioLegend	1:800
CD161	PE-CF594	PK136	562864	BD Biosciences	1:800
CD25	PE-Cy7	PC61	552880	BD Biosciences	1:400
GITR (CD357)	APC	DTA-1	624346	BD Biosciences	1:800
CD11b	APC-R700	M1/70	564985	BD Biosciences	1:2000
CD62L	APC-Cy7	MEL-14	560514	BD Biosciences	1:2000

- Incubate samples for 30 minutes in dark on ice.
- Wash samples with 200 L of FACS buffer and centrifuge for 4 minutes at 400 g at 4 °C.
- Discard supernatant and resuspend pellets in 150 L of FACS buffer containing SYTOX Blue (diluted 1:40 000).
- Acquire 500 000 live cells.

# Notes

## Parameters and Metadata

### Spleen weight CCP\_IMM\_001\_002 | v2.0

simpleParameter

Req. Analysis: false      Req. Upload: true      Is Annotated: false

Unit Measured: g

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### Live leukocytes - % of total events CCP\_IMM\_002\_002 | v2.0

simpleParameter

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Unit Measured: %

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### T cells - % of live leukocytes CCP\_IMM\_003\_002 | v2.0

simpleParameter

Req. Analysis: false      Req. Upload: false      Is Annotated: true

Unit Measured: %

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## NKT cells - % of live leukocytes CCP\_IMM\_004\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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## NK cells - % of live leukocytes CCP\_IMM\_005\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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## CD4 T cells - % of live leukocytes CCP\_IMM\_007\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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## CD8+ T cells - % of live leukocytes CCP\_IMM\_008\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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**CD4+ NKT cells - % of live leukocytes** CCP\_IMM\_011\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

---

**CD4- NKT cells - % of live leukocytes** CCP\_IMM\_013\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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**Treg cells - % of live leukocytes** CCP\_IMM\_014\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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## CD4+ T helper cells - % of live leukocytes CCP\_IMM\_015\_002 | v2

.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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## Total events CCP\_IMM\_026\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## Effector CD4+ T helper cells - % of live leukocytes CCP\_IMM\_028\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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**Resting CD4+ T helper cells - % of live leukocytes** CCP\_IMM\_

029\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

---

**Effector CD8+ T cells - % of live leukocytes** CCP\_IMM\_032\_002 |

v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

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**Naïve CD8+ T cells - % of live leukocytes** CCP\_IMM\_033\_002

| v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

---

**Resting CD8+ T cells - % of live leukocytes** CCP\_IMM\_034\_002 |

v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

---

**Effector CD4+ NKT cells - % of live leukocytes** CCP\_IMM\_040\_

002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: %

---

**Resting CD4+ NKT cells - % of live leukocytes** CCP\_IMM\_041\_0

02 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

---



**Effector CD4- NKT cells - % of live leukocytes** CCP\_IMM\_046\_0

02 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

---

**Resting CD4- NKT cells - % of live leukocytes** CCP\_IMM\_047\_0

02 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

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**Granulocytes - % of live leukocytes** CCP\_IMM\_050\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

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**Monocytes - % of live leukocytes** CCP\_IMM\_051\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

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**Eosinophils - % of live leukocytes** CCP\_IMM\_052\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

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**Ly6C+ CD11b- NK cells - % of live leukocytes** CCP\_IMM\_054\_002  
| v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

---

**Ly6C+ CD11b+ NK cells - % of live leukocytes** CCP\_IMM\_055\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

---

**CD11b- NK cells - % of live leukocytes** CCP\_IMM\_056\_002 | v2.0  
simpleParameter

Req. Analysis: false      Req. Upload: true      Is Annotated: false

Unit Measured: %

---

**CD11b+ NK cells - % of live leukocytes** CCP\_IMM\_057\_002 | v2.0  
simpleParameter

Req. Analysis: false      Req. Upload: true      Is Annotated: false

Unit Measured: %

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**Ly6C+ NKT cells - % of live leukocytes** CCP\_IMM\_059\_002 | v2.0  
simpleParameter

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Unit Measured: %

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## B cells - % of live leukocytes CCP\_IMM\_063\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

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## Follicular B cells - % of B cells CCP\_IMM\_067\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

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## Marginal zone B cells - % of B cells CCP\_IMM\_071\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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## Conventional DC - % of live leukocytes CCP\_IMM\_072\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Plasmacytoid DC- % of live leukocytes** CCP\_IMM\_074\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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**Macrophages- % of live leukocytes** CCP\_IMM\_075\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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**Equipment name** CCP\_IMM\_077\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: FACS,

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## Equipment manufacturer CCP\_IMM\_078\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: Cytex,

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## Equipment model CCP\_IMM\_079\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: Aurora,

---

## CS&T Bead lot CCP\_IMM\_080\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: 2000,

---

## Anesthesia CCP\_IMM\_081\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: none,

---

## Cell digestion CCP\_IMM\_082\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: GentleMACS,

---

## Cell digestion agent CCP\_IMM\_083\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: Spleen Dissociation Kit,

---

## Cell digestion agent manufacturer CCP\_IMM\_084\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: Miltenyi Biotec,

---

**Cell digestion agent catalog number** CCP\_IMM\_085\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: 130-095-926,

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**Cell counting performed** CCP\_IMM\_086\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: post-lysis,

---

**Cell counting equipment manufacturer** CCP\_IMM\_087\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: Nextcelom,

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**Cell counting equipment model** CCP\_IMM\_088\_002 | v2.0

procedureMetadata

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Options: Cellometer Auto T4,

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**Cell counting equipment name** CCP\_IMM\_089\_002 | v2.0

procedureMetadata

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Options: Cellometer Auto T4,

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**Cell lysis buffer manufacturer** CCP\_IMM\_090\_002 | v2.0

procedureMetadata

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Options: home brew,

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**Date and time of sacrifice** CCP\_IMM\_092\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Sample storage temperature until analysis (in Celsius) CCP

\_IMM\_094\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: C

Options: 8,

---

## Balanced salt solution type CCP\_IMM\_096\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: HBSS,

---

## Balanced salt solution manufacturer CCP\_IMM\_097\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

**Options:** home brew,

---

**Balanced salt solution catalog number** CCP\_IMM\_098\_002 | v2.0  
procedureMetadata

**Req. Analysis:** false      **Req. Upload:** false      **Is Annotated:** false

**Options:** home brew,

---

**RPMI manufacturer** CCP\_IMM\_099\_002 | v2.0  
procedureMetadata

**Req. Analysis:** false      **Req. Upload:** false      **Is Annotated:** false

**Options:** none used,

---

**RPMI catalog number** CCP\_IMM\_100\_002 | v2.0  
procedureMetadata

**Req. Analysis:** false      **Req. Upload:** false      **Is Annotated:** false

**Options:** none used,

---

# DNase I manufacturer CCP\_IMM\_101\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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# DNase I catalog number CCP\_IMM\_102\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: none used,

---

# Dead cell exclusion dye CCP\_IMM\_103\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: SYTOX Blue nucleic acid stain,

---

# Dead cell exclusion dye manufacturer CCP\_IMM\_104\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

**Options:** Invitrogen by Thermo Fisher,

---

**Dead cell exclusion dye catalog number** CCP\_IMM\_105\_002 | v2.0  
procedureMetadata

**Req. Analysis:** false      **Req. Upload:** false      **Is Annotated:** false

**Options:** S11348,

---

**Cell digestion temperature (in Celsius)** CCP\_IMM\_106\_002 | v2.0  
procedureMetadata

**Req. Analysis:** false      **Req. Upload:** false      **Is Annotated:** false

**Options:** 37,

---

**Automated analysis** CCP\_IMM\_109\_002 | v2.0  
procedureMetadata

**Req. Analysis:** false      **Req. Upload:** false      **Is Annotated:** false

**Options:** No,

---

**Collection buffer manufacturer** CCP\_IMM\_110\_002 | v2.0

procedureMetadata

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Options: home brew,

---

**Collection buffer catalog number number** CCP\_IMM\_111\_002 | v2.0

procedureMetadata

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Options: home brew,

---

**FACS buffer manufacturer** CCP\_IMM\_112\_002 | v2.0

procedureMetadata

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Options: home brew,

---

**FACS buffer catalog number** CCP\_IMM\_113\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: home brew,

---

## Enzyme buffer manufacturer CCP\_IMM\_114\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: Miltenyi Biotec,

---

## Enzyme buffer catalog number CCP\_IMM\_115\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: 130-095-926,

---

## Clog- events CCP\_IMM\_117\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## Effector NK cells - % of live leukocytes CCP\_IMM\_119\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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## Effector Treg cells - % of live leukocytes CCP\_IMM\_120\_001 | v1.

0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Effector T cells - % of live leukocytes CCP\_IMM\_121\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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**Klrg1+ CD4- NKT cells - % of live leukocytes** CCP\_IMM\_122\_001

| v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Klrg1+ CD4+ NKT cells - % of live leukocytes** CCP\_IMM\_123\_001

| v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Klrg1+ CD4+ T helper cells - % of live leukocytes** CCP\_IMM\_1

24\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Klrg1+ CD8 T cells - % of live leukocytes** CCP\_IMM\_125\_001 | v1.

0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Klrg1+ NK cells - % of live leukocytes** CCP\_IMM\_126\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Klrg1+ Treg cells - % of live leukocytes** CCP\_IMM\_127\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Klrg1+ T cells - % of live leukocytes** CCP\_IMM\_128\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Resting NK cells - % of live leukocytes CCP\_IMM\_129\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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## Resting Treg cells - % of live leukocytes CCP\_IMM\_130\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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## Resting T cells - % of live leukocytes CCP\_IMM\_131\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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## T cells - % of live leukocytes CCP\_IMM\_133\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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## CD4- NKT cells - % of NKT cells CCP\_IMM\_134\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## CD4+ NKT cells - % of NKT cells CCP\_IMM\_135\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**CD4+ T cells - % of T cells** CCP\_IMM\_136\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**CD4+ T helper cells - % of CD4 T cells** CCP\_IMM\_137\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**CD8+ T cells - % of T cells** CCP\_IMM\_138\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Effector CD4- NKT cells - % of CD4- NKT cells** CCP\_IMM\_139\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Effector CD4+ NKT cells - % of CD4+ NKT cells** CCP\_IMM\_140\_

001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Effector CD4+ T helper cells - % of CD4+ T helper cells** CCP

\_IMM\_141\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Effector CD8+ T cells - % of CD8+ T cells** CCP\_IMM\_142\_001 | v1.

0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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## Effector NK cells - % of NK cells CCP\_IMM\_143\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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## Effector Treg cells - % of Treg cells CCP\_IMM\_144\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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## Effector T cells - % of T cells CCP\_IMM\_145\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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## Klrg1+ CD4- NKT cells - % of CD4- NKT cells CCP\_IMM\_146\_001

| v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Klrg1+ CD4+ NKT cells - % of CD4+ NKT cells CCP\_IMM\_147\_0

01 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Klrg1+ CD4+ T helper cells - % of CD4+ T helper cells CCP\_I

MM\_148\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

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## Klrg1+ CD8 T cells - % of CD8+ T cells CCP\_IMM\_149\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Klrg1+ NK cells - % of NK cells CCP\_IMM\_150\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Klrg1+ Treg cells - % of Treg cells CCP\_IMM\_151\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Klrg1+ T cells - % of T cells CCP\_IMM\_152\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Naïve CD8+ T cells - % of CD8+ T cells CCP\_IMM\_153\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Resting CD4- NKT cells - % of CD4- NKT cells CCP\_IMM\_154\_0

01 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Resting CD4+ NKT cells - % of CD4+ NKT cells CCP\_IMM\_155\_

001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Resting CD4+ T helper cells - % of CD4+ T helper cells** CCP

\_IMM\_156\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Resting CD8+ T cells - % of CD8+ T cells** CCP\_IMM\_157\_001 | v1.

0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Resting NK cells - % of NK cells** CCP\_IMM\_158\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Resting Treg cells - % of Treg cells CCP\_IMM\_159\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Resting T cells - % of T cells CCP\_IMM\_160\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Treg cells - % of CD4 T cells CCP\_IMM\_161\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**B1a cells - % of B cells** CCP\_IMM\_164\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**CD11b-high cDC - % of conventional DC** CCP\_IMM\_166\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**CD11b-low cDC - % of conventional DC** CCP\_IMM\_167\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**CD161+ B cells - % of live leukocytes** CCP\_IMM\_168\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**CD11b- NK cells - % of NK cells** CCP\_IMM\_171\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**CD11b+ NK cells - % of NK cells** CCP\_IMM\_172\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**CD161+ B cells - % of B cells** CCP\_IMM\_173\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Follicular B cells - % of B cells CCP\_IMM\_174\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Ly6C+ CD11b- NK cells - % of NK cells CCP\_IMM\_175\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Ly6C+ CD11b+ NK cells - % of NK cells CCP\_IMM\_176\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

## Ly6C+ NKT cells - % of NKT cells CCP\_IMM\_177\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**Marginal zone B cells - % of B cells** CCP\_IMM\_178\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

---

**T cells - cell count** CCP\_IMM\_181\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**CD8+ T cells - cell count** CCP\_IMM\_183\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count



---

## Effector CD8+ T cells - cell count CCP\_IMM\_184\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Resting CD8+ T cells - cell count CCP\_IMM\_185\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Naïve CD8+ T cells - cell count CCP\_IMM\_186\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

# Klrg1+ CD8 T cells - cell count CCP\_IMM\_187\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

# CD4 T cells - cell count CCP\_IMM\_188\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

# CD4+ T helper cells - cell count CCP\_IMM\_189\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

# Effector CD4+ T helper cells - cell count CCP\_IMM\_190\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**Resting CD4+ T helper cells - cell count** CCP\_IMM\_191\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**Klrg1+ CD4+ T helper cells - cell count** CCP\_IMM\_192\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**Treg cells - cell count** CCP\_IMM\_193\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Effector Treg cells - cell count CCP\_IMM\_194\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Resting Treg cells - cell count CCP\_IMM\_195\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Klrg1+ Treg cells - cell count CCP\_IMM\_196\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## T cells - cell count CCP\_IMM\_197\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Effector T cells - cell count CCP\_IMM\_198\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Resting T cells - cell count CCP\_IMM\_199\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Klrg1+ T cells - cell count CCP\_IMM\_200\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## NKT cells (panel A) - cell count CCP\_IMM\_201\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## CD4+ NKT cells - cell count CCP\_IMM\_202\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Effector CD4+ NKT cells - cell count CCP\_IMM\_203\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**Resting CD4+ NKT cells - cell count** CCP\_IMM\_204\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**Klrg1+ CD4+ NKT cells - cell count** CCP\_IMM\_205\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**CD4- NKT cells - cell count** CCP\_IMM\_206\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**Effector CD4- NKT cells - cell count** CCP\_IMM\_207\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**Resting CD4- NKT cells - cell count** CCP\_IMM\_208\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**Klrg1+ CD4- NKT cells - cell count** CCP\_IMM\_209\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**NK cells - cell count** CCP\_IMM\_210\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---



## Effector NK cells - cell count CCP\_IMM\_211\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Resting NK cells - cell count CCP\_IMM\_212\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Klrg1+ NK cells - cell count CCP\_IMM\_213\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Ly6C+ NKT cells - cell count CCP\_IMM\_216\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## CD11b- NK cells - cell count CCP\_IMM\_218\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Ly6C+ CD11b- NK cells - cell count CCP\_IMM\_219\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## CD11b+ NK cells - cell count CCP\_IMM\_220\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## Ly6C+ CD11b+ NK cells - cell count CCP\_IMM\_221\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## B cells - cell count CCP\_IMM\_222\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## B1a cells - cell count CCP\_IMM\_223\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**Follicular B cells - cell count** CCP\_IMM\_225\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**Marginal zone B cells - cell count** CCP\_IMM\_226\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**CD161+ B cells - cell count** CCP\_IMM\_229\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**Conventional DC - cell count** CCP\_IMM\_230\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**CD11b-low cDC - cell count** CCP\_IMM\_231\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**CD11b-high cDC - cell count** CCP\_IMM\_232\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

**Plasmacytoid DC - cell count** CCP\_IMM\_233\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

# Macrophages - cell count CCP\_IMM\_234\_001 | v1.0

simpleParameter

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Unit Measured: count

---

# Monocytes - cell count CCP\_IMM\_235\_001 | v1.0

simpleParameter

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Unit Measured: count

---

# Granulocytes - cell count CCP\_IMM\_236\_001 | v1.0

simpleParameter

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Unit Measured: count

---

# Eosinophils - cell count CCP\_IMM\_237\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: count

---

## IMPC Panel anti-CD5 clone CCP\_IMM\_238\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: 53-7.3,

---

## IMPC Panel anti-CD5 fluorochrome CCP\_IMM\_239\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: BV421,

---

## IMPC Panel anti-CD5 RRID CCP\_IMM\_240\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_2737758,

---

## IMPC Panel anti-CD4 clone CCP\_IMM\_241\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: RM4-5,

---

## IMPC Panel anti-CD4 fluorochrome CCP\_IMM\_242\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: BUV496,

---

## IMPC Panel anti-CD4 RRID CCP\_IMM\_243\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_2870665,

---



**IMPC Panel anti-CD44 clone** CCP\_IMM\_244\_001 | v1.0

[procedure](#)[Metadata](#)

**Req. Analysis:** false      **Req. Upload:** false      **Is Annotated:** false

**Options:** IM7,

---

**IMPC Panel anti-CD44 fluorochrome** CCP\_IMM\_245\_001 | v1.0

[procedure](#)[Metadata](#)

**Req. Analysis:** false      **Req. Upload:** false      **Is Annotated:** false

**Options:** BUV805,

---

**IMPC Panel anti-CD44 RRID** CCP\_IMM\_246\_001 | v1.0

[procedure](#)[Metadata](#)

**Req. Analysis:** false      **Req. Upload:** false      **Is Annotated:** false

**Options:** AB\_2871234,

---

**IMPC Panel anti-CD8a clone** CCP\_IMM\_247\_001 | v1.0

[procedure](#)[Metadata](#)

**Req. Analysis:** false      **Req. Upload:** false      **Is Annotated:** false

Options: 53-6.7,

---

**IMPC Panel anti-CD8a fluorochrome** CCP\_IMM\_248\_001 | v1.0  
[procedure](#)[Metadata](#)

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Options: BUV395,

---

**IMPC Panel anti-CD8a RRID** CCP\_IMM\_249\_001 | v1.0  
[procedure](#)[Metadata](#)

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Options: AB\_2732919,

---

**IMPC Panel anti-CD25 clone** CCP\_IMM\_250\_001 | v1.0  
[procedure](#)[Metadata](#)

Req. Analysis: false      Req. Upload: false      Is Annotated: false

Options: PC61,

---

## IMPC Panel anti-CD25 fluorochrome CCP\_IMM\_251\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: PE-Cy7,

---

## IMPC Panel anti-CD25 RRID CCP\_IMM\_252\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_394509,

---

## IMPC Panel anti-CD161 clone CCP\_IMM\_253\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: PK136,

---

## IMPC Panel anti-CD161 fluorochrome CCP\_IMM\_254\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: PE-CF594,

---

## IMPC Panel anti-CD161 RRID CCP\_IMM\_255\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_2737850,

---

## IMPC Panel anti-CD62L clone CCP\_IMM\_256\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: MEL-14,

---

## IMPC Panel anti-CD62L fluorochrome CCP\_IMM\_257\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: APC-Cy7,

---

## IMPC Panel anti-CD62L RRID CCP\_IMM\_258\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_10611861,

---

## IMPC Panel Live/Dead stain CCP\_IMM\_259\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: SYTOX Blue nucleic acid stain,

---

## IMPC Panel additional maker 1 name CCP\_IMM\_260\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel additional marker 1 clone CCP\_IMM\_261\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: GL3,

---

## IMPC Panel additional marker 1 fluorochrome CCP\_IMM\_262\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: BUV661,

---

## IMPC Panel additional marker 1 RRID CCP\_IMM\_263\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_2874580,

---

## IMPC Panel additional maker 2 name CCP\_IMM\_264\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel additional marker 2 clone CCP\_IMM\_265\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: R1-2,

---

## IMPC Panel additional marker 2 fluorochrome CCP\_IMM\_266\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: BB790,

---

## IMPC Panel additional marker 2 RRID CCP\_IMM\_267\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel additional maker 3 name CCP\_IMM\_268\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel additional marker 3 clone CCP\_IMM\_269\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: 2F1,

---

## IMPC Panel additional marker 3 fluorochrome CCP\_IMM\_270\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: BB700,

---

## IMPC Panel additional marker 3 RRID CCP\_IMM\_271\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_2871424,



---

## IMPC Panel additional maker 4 name CCP\_IMM\_272\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel additional marker 4 clone CCP\_IMM\_273\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: DTA-1,

---

## IMPC Panel additional marker 4 fluorochrome CCP\_IMM\_274\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: APC,

---

## IMPC Panel additional marker 4 RRID CCP\_IMM\_275\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel anti-CD5 clone CCP\_IMM\_280\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel anti-CD5 fluorochrome CCP\_IMM\_281\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel anti-CD5 RRID CCP\_IMM\_282\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel anti-Ly6G clone CCP\_IMM\_283\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: 1A8,

---

**IMPC Panel anti-Ly6G fluorochrome** CCP\_IMM\_284\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: BV650,

---

**IMPC Panel anti-Ly6G RRID** CCP\_IMM\_285\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_2740255,

---

**IMPC Panel anti-CD19 clone** CCP\_IMM\_286\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: 1D3,

---

## IMPC Panel anti-CD19 fluorochrome CCP\_IMM\_287\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: BUV615,

---

## IMPC Panel anti-CD19 RRID CCP\_IMM\_288\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_2875235,

---

## IMPC Panel anti-Ly6C clone CCP\_IMM\_289\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AL-21,

---

## IMPC Panel anti-Ly6c fluorochrome CCP\_IMM\_290\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: FITC,

---

## IMPC Panel anti-Ly6c RRID CCP\_IMM\_291\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_394628,

---

## IMPC Panel anti-CD21/35 clone CCP\_IMM\_292\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: 7G6,

---

## IMPC Panel anti-CD21/35 fluorochrome CCP\_IMM\_293\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: BUV737,

---

## IMPC Panel anti-CD21/35 RRID CCP\_IMM\_294\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_2870135,

---

## IMPC Panel anti-CD11b clone CCP\_IMM\_295\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: M1/70,

---

## IMPC Panel anti-CD11b fluorochrome CCP\_IMM\_296\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: APC-R700,

---

## IMPC Panel anti-CD11b RRID CCP\_IMM\_297\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_2739033,

---

## IMPC Panel anti-CD11c clone CCP\_IMM\_298\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: N418,

---

## IMPC Panel anti-CD11c fluorochrome CCP\_IMM\_299\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: BV605,

---

## IMPC Panel anti-CD11c RRID CCP\_IMM\_300\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_2562415,

---

**IMPC Panel anti-CD161 clone** CCP\_IMM\_301\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

**IMPC Panel anti-CD161 fluorochrome** CCP\_IMM\_302\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

**IMPC Panel anti-CD161 RRID** CCP\_IMM\_303\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

**IMPC Panel anti-MHCII clone** CCP\_IMM\_304\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false



Options: M5/114.15.2,

---

## IMPC Panel anti-MHCII fluorochrome CCP\_IMM\_305\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: BB630,

---

## IMPC Panel anti-MHCII RRID CCP\_IMM\_306\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel Live/Dead stain CCP\_IMM\_307\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel additional maker 1 name CCP\_IMM\_308\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel additional marker 1 clone CCP\_IMM\_309\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: B3B4,

---

## IMPC Panel additional marker 1 fluorochrome CCP\_IMM\_310\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: PE,

---

## IMPC Panel additional marker 1 RRID CCP\_IMM\_311\_001 | v1.0

[procedure](#)[Metadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_312832,

---

## IMPC Panel additional maker 2 name CCP\_IMM\_312\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---

## IMPC Panel additional marker 2 clone CCP\_IMM\_313\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: T45-2342,

---

## IMPC Panel additional marker 2 fluorochrome CCP\_IMM\_314\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: BUV563,

---

## IMPC Panel additional marker 2 RRID CCP\_IMM\_315\_001 | v1.0

[procedureMetadata](#)

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_2873659,

---

## IMPC Panel additional maker 3 name CCP\_IMM\_316\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

## IMPC Panel additional marker 3 clone CCP\_IMM\_317\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: 927,

---

## IMPC Panel additional marker 3 fluorochrome CCP\_IMM\_318\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: BV711,

---

## IMPC Panel additional marker 3 RRID CCP\_IMM\_319\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Options: AB\_2744172,

---

## AIM T cells - % of live leukocytes CCP\_IMM\_329\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

---

## AIM T cells - % of CD8+ T cells CCP\_IMM\_330\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

---

## CD11b-low cDC - % of of live leukocytes CCP\_IMM\_331\_001 | v1.0

simpleParameter

Req. Analysis: false      Req. Upload: true      Is Annotated: false

Unit Measured: %

-----

**CD11b-high cDC - % of live leukocytes** CCP\_IMM\_332\_001 | v1.0

simpleParameter

Req. Analysis: false      Req. Upload: true      Is Annotated: false

Unit Measured: %

-----

**Live cells - cell count** CCP\_IMM\_333\_001 | v1.0

simpleParameter

Req. Analysis: false      Req. Upload: true      Is Annotated: false

-----

**AIM CD8+ Tcells - cell count** CCP\_IMM\_334\_001 | v1.0

simpleParameter

Req. Analysis: false      Req. Upload: true      Is Annotated: false

-----

**B1a cells - % of live** CCP\_IMM\_335\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

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