

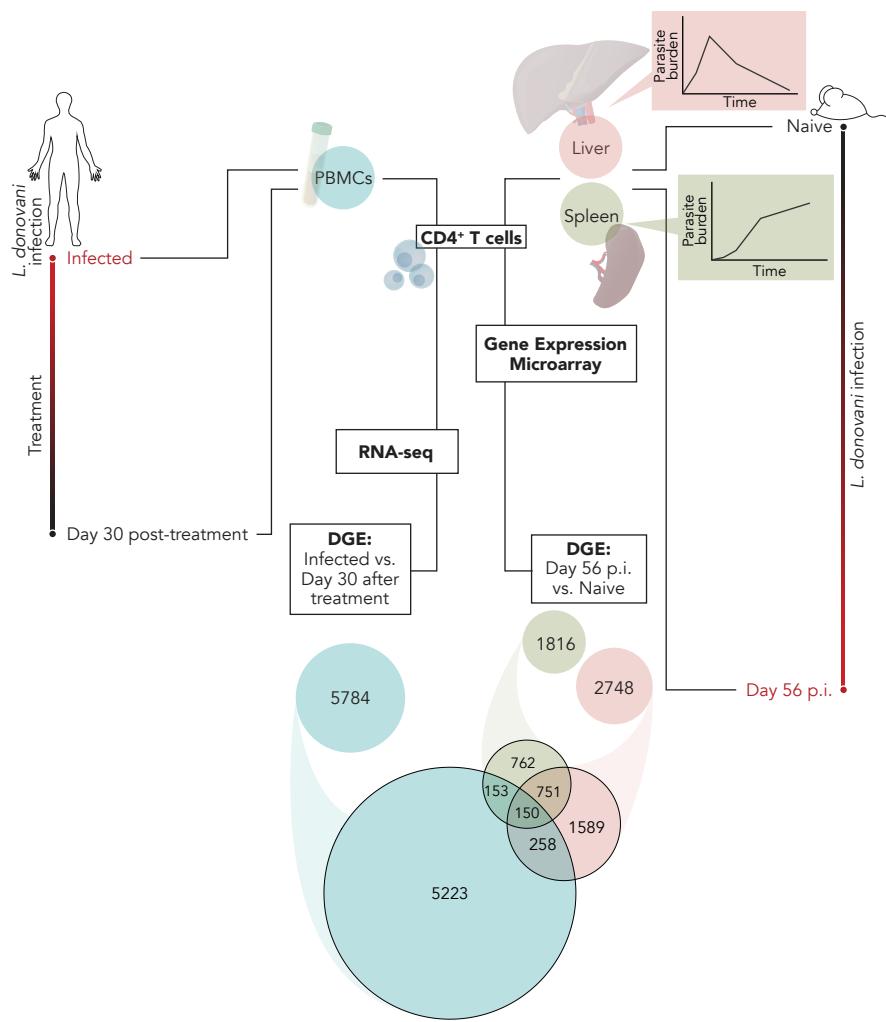
## Supplementary information

# The NK cell granule protein NKG7 regulates cytotoxic granule exocytosis and inflammation

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## Supplementary Figure 1



**Supplementary Figure 1 Defining transcriptomic signature of CD4<sup>+</sup> T cells during *Leishmania donovani* infection.** Schematic showing the approach taken to identify transcriptomic signatures of CD4<sup>+</sup> T cells in the spleen ( $n = 5$  biological replicates) and liver ( $n = 4$  naive replicates, each pooled from 4 mice, and 5 infected biological replicates) of mice at day 56 post-infection (p.i.) that are relevant in *L. donovani*-infected patients before and 30 days post-drug treatment ( $n = 9$ ).

**Supplementary Table 1. Clinical data from visceral leishmaniasis patients**

Variables	Endemic Controls	Visceral Leishmaniasis
<b>n</b>	14	23
<b>Age (years)</b>	31.14±7.94 (29)	26.17±17.79 (22) <sup>a</sup>
<b>Sex (M/F)</b>	08/06	13/10
<b>Duration of illness (days)</b>	N/A	26.82±17.47 (21)
<b>WBC (x 10<sup>3</sup>/mm<sup>3</sup>, day 0)</b>	N/D	3926.08±1884.43 (3400)
<b>WBC (x 10<sup>3</sup>/mm<sup>3</sup>, day 30)</b>	N/D	7795.65±2618.72 (7800)
<b>Platelets (x 10<sup>3</sup>/mm<sup>3</sup>, day 0)</b>	N/D	110260.87±58182.49(98000)
<b>Platelets (x 10<sup>3</sup>/mm<sup>3</sup>, day 30)</b>	N/D	212608.70±79014.81 (240000)
<b>Splenic enlargement (cm, day 0)</b>	N/A	5.04±3.52 (4)
<b>Splenic enlargement (cm, day 30)</b>	N/A	1.17±1.4 (0)

Abbreviations: N/A, not applicable; N/D, not done.

<sup>a</sup>The data is shown as mean ± SD of aggregated data, and median values are included in parentheses.

**Supplementary Table 5. Composition of *in vitro* polarisation cocktails**

Condition	Composition	Company	Clone	Concentration (1x)
Th0	α-CD3ε	BioLegend*	145-2C11	4 µg/ml
	α-CD28	BioLegend*	37.51	2 µg/ml
	rmIL-2	BioLegend*	-	20 ng/ml
Th1	α-CD3ε	BioLegend*	145-2C11	4 µg/ml
	α-CD28	BioLegend*	37.51	2 µg/ml
	rmIL-2	BioLegend*	-	20 ng/ml
	rmIL-12 (p70)	BioLegend*	-	10 ng/ml
	α-IL-4	BioLegend*	11B11	10 µg/ml
Th1 + rIL-27	α-CD3ε	BioLegend*	145-2C11	4 µg/ml
	α-CD28	BioLegend*	37.51	2 µg/ml
	rmIL-2	BioLegend*	-	20 ng/ml
	rmIL-12 (p70)	BioLegend*	-	10 ng/ml
	α-IL-4	BioLegend*	11B11	10 µg/ml
	rmIL-27	BioLegend*	-	100 ng/ml
Tr1	α-CD3ε	BioLegend*	145-2C11	4 µg/ml
	α-CD28	BioLegend*	37.51	2 µg/ml
	rmIL-2	BioLegend*	-	20 ng/ml
	rmIL-27	BioLegend*	-	100 ng/ml
Th2	α-CD3ε	BioLegend*	145-2C11	4 µg/ml
	α-CD28	BioLegend*	37.51	2 µg/ml
	rmIL-2	BioLegend*	-	20 ng/ml
	rmIL-4	BioLegend*	-	40 ng/ml
	α-IFN-γ	BioLegend*	XMG1.2	10 µg/ml
Th17	α-CD3ε	BioLegend*	145-2C11	4 µg/ml
	α-CD28	BioLegend*	37.51	2 µg/ml
	rmIL-2	BioLegend*	-	20 ng/ml
	rmIL-6	BioLegend*	-	20 ng/ml
	rmIL-1β	eBioscience <sup>#</sup>	-	10 ng/ml

	rmIL-23	eBioscience <sup>#</sup>	-	10 ng/ml
	rm-TNF	eBioscience <sup>#</sup>	-	10 ng/ml
	rm-TGF $\beta$	BioLegend*	-	1 ng/ml
	$\alpha$ -IFN- $\gamma$	BioLegend*	XMG1.2	10 $\mu$ g/ml
	$\alpha$ -IL-4	BioLegend*	11B11	10 $\mu$ g/ml
<b>T<sub>r1</sub> + TGF<math>\beta</math></b>	$\alpha$ -CD3 $\varepsilon$	BioLegend*	145-2C11	4 $\mu$ g/ml
	$\alpha$ -CD28	BioLegend*	37.51	2 $\mu$ g/ml
	rmIL-2	BioLegend*	-	20 ng/ml
	rmIL-27	BioLegend*	-	100 ng/ml
	rm-TGF $\beta$	BioLegend*	-	0.5 $\mu$ g/ml

Based on methods previously described in <sup>22</sup>.  $T_H$ , T helper;  $T_{reg}$ , regulatory T cell;  $\alpha$ , purified monoclonal anti-mouse; rmIL, recombinant mouse interleukin; \* BioLegend, San Diego CA, USA; <sup>#</sup> eBioscience, Thermo Fisher Scientific, Waltham MA, USA

**Supplementary Table 6. Frequencies of immune cell subsets in WT versus *Nkg7*<sup>-/-</sup> mice**

Organ	Cell type	WT	<i>Nkg7</i> <sup>-/-</sup>	Mann–Whitney test, <i>p</i> value
Lung	<b>γδ T cells</b>			
	CD45 <sup>+</sup> TCRβ <sup>-</sup> TCRγ/δ <sup>+</sup>	1.155 ± 0.293	1.450 ± 0.272	0.4127
<b>NK cells</b>	CD45 <sup>+</sup> TCRγ/δ <sup>-</sup> TCRβ <sup>-</sup> NK1.1 <sup>+</sup>	7.423 ± 1.510	8.334 ± 2.280	0.4127
	CD45 <sup>+</sup> TCRγ/δ <sup>-</sup> NK1.1 <sup>-</sup> TCRβ <sup>+</sup> CD8 <sup>-</sup> CD4 <sup>+</sup>	14.130 ± 2.364	12.960 ± 2.300	0.4127
<b>CD8<sup>+</sup> T cells</b>	CD45 <sup>+</sup> TCRγ/δ <sup>-</sup> NK1.1 <sup>-</sup> TCRβ <sup>+</sup> CD4 <sup>-</sup> CD8 <sup>+</sup>	8.293 ± 1.625	8.886 ± 2.009	0.9048
	CD45 <sup>+</sup> TCRγ/δ <sup>-</sup> NK1.1 <sup>-</sup> TCRβ <sup>-</sup> B220 <sup>+</sup>	28.580 ± 2.363	25.660 ± 4.281	0.3095
<b>Macrophages</b>	CD45 <sup>+</sup> TCRγ/δ <sup>-</sup> NK1.1 <sup>-</sup> TCRβ <sup>-</sup> B220 <sup>-</sup> MHCII <sup>+</sup> CD64 <sup>+</sup>	6.788 ± 1.438	6.298 ± 1.756	>0.9999
	CD45 <sup>+</sup> TCRγ/δ <sup>-</sup> NK1.1 <sup>-</sup> TCRβ <sup>-</sup> B220 <sup>-</sup> CD64 <sup>-</sup> MHCII <sup>hi</sup> CD11c <sup>+</sup>	1.383 ± 0.217	1.718 ± 0.478	0.4127
<b>Neutrophils</b>	CD45 <sup>+</sup> TCRγ/δ <sup>-</sup> NK1.1 <sup>-</sup> TCRβ <sup>-</sup> B220 <sup>-</sup> CD64 <sup>-</sup> CD11c <sup>-</sup> Ly-6G <sup>+</sup> Ly-6C <sup>+</sup>	0.923 ± 0.175	1.692 ± 0.495	0.0635
	CD45 <sup>+</sup> TCRγ/δ <sup>-</sup> NK1.1 <sup>-</sup> TCRβ <sup>-</sup> B220 <sup>-</sup> CD64 <sup>-</sup> CD11c <sup>-</sup> Ly-6G <sup>-</sup> CD11b <sup>+</sup> Ly-6C <sup>+</sup>	5.090 ± 2.385	3.098 ± 0.976	0.2857

		Statistical analysis		
		Mean	SD	P-value
<b>Spleen</b>	<b><math>\gamma\delta</math> T cells</b>			
	CD45 <sup>+</sup> TCR $\beta$ <sup>-</sup>	0.892 $\pm$ 0.100	1.060 $\pm$ 0.110	0.0635
	TCR $\gamma/\delta$ <sup>+</sup>			
	<b>NK cells</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta$ <sup>-</sup>	2.790 $\pm$ 0.506	2.844 $\pm$ 0.688	0.6905
	TCR $\beta$ <sup>-</sup> NK1.1 <sup>+</sup>			
	<b>CD4<sup>+</sup> T cells</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta$ <sup>-</sup>			
	NK1.1 <sup>-</sup> TCR $\beta$ <sup>+</sup> CD8 <sup>-</sup>	17.780 $\pm$ 2.109	19.480 $\pm$ 0.850	0.2143
	CD4 <sup>+</sup>			
	<b>CD8<sup>+</sup> T cells</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta$ <sup>-</sup>			
	NK1.1 <sup>-</sup> TCR $\beta$ <sup>+</sup> CD4 <sup>-</sup>	9.754 $\pm$ 1.760	12.340 $\pm$ 1.276	* 0.0476
	CD8 <sup>+</sup>			
	<b>B cells</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta$ <sup>-</sup>	56.900 $\pm$ 3.152	52.560 $\pm$ 1.276	* 0.0159
	NK1.1 <sup>-</sup> TCR $\beta$ <sup>-</sup> B220 <sup>+</sup>			
	<b>Macrophages</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta$ <sup>-</sup>			
	NK1.1 <sup>-</sup> TCR $\beta$ <sup>-</sup> B220 <sup>-</sup>	1.248 $\pm$ 0.357	1.634 $\pm$ 0.178	0.2222
	F4/80 <sup>+</sup> CD64 <sup>+</sup>			
	<b>cDCs</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta$ <sup>-</sup>			
	NK1.1 <sup>-</sup> TCR $\beta$ <sup>-</sup> B220 <sup>-</sup>	0.544 $\pm$ 0.058	0.580 $\pm$ 0.085	0.4603
	CD64 <sup>-</sup> MHCII <sup>hi</sup>			
	CD11c <sup>+</sup>			
	<b>Neutrophils</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta$ <sup>-</sup>			
	NK1.1 <sup>-</sup> TCR $\beta$ <sup>-</sup> B220 <sup>-</sup>	0.748 $\pm$ 0.344	0.546 $\pm$ 0.144	0.3175
	CD64 <sup>-</sup> CD11c <sup>-</sup> Ly-6G <sup>+</sup>			
	CD11b <sup>+</sup> Ly-6C <sup>+</sup>			
	<b>Monocytes</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta$ <sup>-</sup>			
	NK1.1 <sup>-</sup> TCR $\beta$ <sup>-</sup> B220 <sup>-</sup>	0.076 $\pm$ 0.008	0.104 $\pm$ 0.017	* 0.0159
	CD64 <sup>-</sup> CD11c <sup>-</sup> Ly-6G <sup>-</sup>			
	CD11b <sup>+</sup> Ly-6C <sup>+</sup>			
<b>Thymus</b>	<b>CD4<sup>+</sup></b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta$ <sup>-</sup>	8.584 $\pm$ 0.763	8.774 $\pm$ 1.278	>0.9999
	NK1.1 <sup>-</sup> CD8 <sup>-</sup> CD4 <sup>+</sup>			

	<b>CD8<sup>+</sup></b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta^-$	5.198 $\pm$ 1.420	3.940 $\pm$ 1.288	0.0952
	NK1.1 <sup>-</sup> CD4 <sup>-</sup> CD8 <sup>+</sup>			
	<b>CD4<sup>+</sup> CD8<sup>+</sup></b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta^-$	78.480 $\pm$ 1.806	80.680 $\pm$ 2.475	0.2222
	NK1.1 <sup>-</sup> CD4 <sup>+</sup> CD8 <sup>+</sup>			
<b>Bone</b>	<b><math>\gamma\delta</math> T cells</b>			
<b>marrow</b>	CD45 <sup>+</sup> TCR $\beta^-$	0.306 $\pm$ 0.042	0.486 $\pm$ 0.065	** 0.0079
	TCR $\gamma/\delta^+$			
	<b>NK cells</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta^-$	1.090 $\pm$ 0.171	1.116 $\pm$ 0.066	>0.9999
	TCR $\beta^-$ NK1.1 <sup>+</sup>			
	<b>CD4<sup>+</sup> T cells</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta^-$			
	NK1.1 <sup>-</sup> TCR $\beta^+$ CD8 <sup>-</sup>	0.500 $\pm$ 0.091	0.676 $\pm$ 0.105	* 0.0317
	CD4 <sup>+</sup>			
	<b>CD8<sup>+</sup> T cells</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta^-$			
	NK1.1 <sup>-</sup> TCR $\beta^+$ CD4 <sup>-</sup>	0.950 $\pm$ 0.219	1.448 $\pm$ 0.118	** 0.0079
	CD8 <sup>+</sup>			
	<b>B cells</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta^-$	34.120 $\pm$ 5.591	25.960 $\pm$ 2.399	* 0.0159
	NK1.1 <sup>-</sup> TCR $\beta^-$ B220 <sup>+</sup>			
	<b>Macrophages</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta^-$			
	NK1.1 <sup>-</sup> TCR $\beta^-$ B220 <sup>-</sup>	8.412 $\pm$ 1.608	8.236 $\pm$ 1.378	>0.9999
	Ly-6G <sup>-</sup> CD64 <sup>+</sup>			
	F4/80 <sup>+</sup>			
	<b>Ly6C<sup>hi</sup> monocytes</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta^-$			
	NK1.1 <sup>-</sup> TCR $\beta^-$ B220 <sup>-</sup>	2.686 $\pm$ 0.411	3.064 $\pm$ 0.571	0.5476
	Ly-6G <sup>-</sup> CD64 <sup>-</sup>			
	CD11b <sup>+</sup> Ly6C <sup>hi</sup>			
	<b>Ly6C<sup>lo</sup> monocytes</b>			
	CD45 <sup>+</sup> TCR $\gamma/\delta^-$			
	NK1.1 <sup>-</sup> TCR $\beta^-$ B220 <sup>-</sup>	1.600 $\pm$ 0.169	1.826 $\pm$ 0.231	0.2063
	Ly-6G <sup>-</sup> CD64 <sup>-</sup>			
	CD11b <sup>+</sup> Ly6C <sup>lo</sup>			

<b>Neutrophils</b>				
CD45 <sup>+</sup> TCR $\gamma/\delta^-$	30.140 $\pm$ 2.855	34.960 $\pm$ 3.418		0.0952
NK1.1 <sup>-</sup> TCR $\beta^-$ B220 <sup>-</sup>				
Ly-6G <sup>+</sup> Ly-6C <sup>+</sup>				
<b>Blood</b>				
<b><math>\gamma\delta</math> T cells</b>				
CD45 <sup>+</sup> TCR $\beta^-$	0.808 $\pm$ 0.213	1.386 $\pm$ 0.232		** 0.0079
TCR $\gamma/\delta^+$				
<b>NK cells</b>				
CD45 <sup>+</sup> TCR $\gamma/\delta^-$	11.960 $\pm$ 4.377	11.580 $\pm$ 2.536		0.8968
TCR $\beta^-$ NK1.1 <sup>+</sup>				
<b>CD4<sup>+</sup> T cells</b>				
CD45 <sup>+</sup> TCR $\gamma/\delta^-$	16.330 $\pm$ 4.123	17.480 $\pm$ 1.219		0.9683
NK1.1 <sup>-</sup> TCR $\beta^+$ CD8 <sup>-</sup>				
CD4 <sup>+</sup>				
<b>CD8<sup>+</sup> T cells</b>				
CD45 <sup>+</sup> TCR $\gamma/\delta^-$	13.220 $\pm$ 2.435	15.640 $\pm$ 1.682		0.1349
NK1.1 <sup>-</sup> TCR $\beta^+$ CD4 <sup>-</sup>				
CD8 <sup>+</sup>				
<b>B cells</b>				
CD45 <sup>+</sup> TCR $\gamma/\delta^-$	36.200 $\pm$ 4.047	34.260 $\pm$ 2.882		0.4206
NK1.1 <sup>-</sup> TCR $\beta^-$ B220 <sup>+</sup>				
<b>Macrophages</b>				
CD45 <sup>+</sup> TCR $\gamma/\delta^-$	2.068 $\pm$ 0.262	3.876 $\pm$ 0.358		** 0.0079
NK1.1 <sup>-</sup> TCR $\beta^-$ B220 <sup>-</sup>				
CD64 <sup>+</sup>				
<b>Neutrophils</b>				
CD45 <sup>+</sup> TCR $\gamma/\delta^-$				
NK1.1 <sup>-</sup> TCR $\beta^-$ B220 <sup>-</sup>	3.740 $\pm$ 2.980	2.492 $\pm$ 0.854		0.8413
CD64 <sup>-</sup> CD11c <sup>-</sup> Ly-6G <sup>+</sup> Ly-6C <sup>+</sup>				
<b>Monocytes</b>				
CD45 <sup>+</sup> TCR $\gamma/\delta^-$				
NK1.1 <sup>-</sup> TCR $\beta^-$ B220 <sup>-</sup>	0.095 $\pm$ 0.028	0.184 $\pm$ 0.031		** 0.0079
CD64 <sup>-</sup> CD11c <sup>-</sup> Ly-6G <sup>-</sup> CD11b <sup>+</sup> Ly-6C <sup>+</sup>				

*n = 4 or 5 mice per group. Data obtained from one experiment. Values represent the mean frequency of each cell subset as a % of CD45<sup>+</sup> cells  $\pm$  standard deviation (SD). Statistical significance was determined using a Mann–Whitney test. \* p < 0.05, \*\* p < 0.01. cDCs, conventional dendritic cells; NK, natural killer; WT, wild-type.*

**Supplementary Table 7. Antibodies used for flow cytometry, polarization cocktails, and immunofluorescence microscopy**

Antibody	Company	Clone	Use	Concentration
Alexa Fluor 488 anti-mouse F4/80	BioLegend*	BM8	FC	10 µg/ml
Alexa Fluor 488 anti-mouse FOXP3	BioLegend*	MF-14	FC	10 µg/ml
Alexa Fluor 647 anti-mouse CD4	BioLegend*	RM4-5	IF	5 µg/ml
Alexa Fluor 647 anti-mouse CD107a (LAMP1)	BioLegend*	1D4B	FC	2.5 µg/ml (lung) or 5 µg/ml
			IF	5 µg/ml
Alexa Fluor 647 anti-mouse FOXP3	BioLegend*	MF-14	FC	10 µg/ml
Alexa Fluor 647 anti-mouse IFNy	BioLegend*	XMG1.2	FC	10 µg/ml
Alexa Fluor 700 anti-mouse CD8α	BioLegend*	53-6.7	FC	2.5 µg/ml
Alexa Fluor 700 anti-mouse/human CD44	BioLegend*	IM7	CS	2.5 µg/ml
Alexa Fluor 700 anti-mouse CD45.1	BioLegend*	A20	FC	5 µg/ml
APC anti-mouse CD4	BioLegend*	GK1.5	FC	1 µg/ml
			CS	2 µg/ml
APC anti-mouse CD11a	BD Biosciences%	2D7	FC	1 µg/ml
CD27 monoclonal antibody, APC	eBioscience#	LG.7F9	FC	1 µg/ml
APC anti-mouse IFN-γ	BioLegend*	XMG1.2	FC	4 µg/ml
APC anti-mouse IL-10	BioLegend*	JES5-16E3	FC	1 µg/ml
APC anti-mouse TCR β chain	BioLegend*	H57-597	FC	1 µg/ml
APC anti-mouse TCR γ/δ	BioLegend*	GL3	FC	2 µg/ml
CD45.2 monoclonal antibody, APC-eFluor 780	eBioscience#	104	FC	0.5 µg/ml
APC/Cy7 anti-mouse NK1.1	BioLegend*	PK136	FC	1 µg/ml
Biotin anti-mouse CD314 (NKG2D)	Miltenyi Biotec^	CX5	FC	0.15 µg/ml
Biotin mouse anti-mouse H-2Kb	BD Biosciences%	AF6-88.5	FC	2.5 µg/ml
BUV395 rat anti-mouse CD4	BD Biosciences%	GK1.5	FC	1 µg/ml
BUV395 mouse anti-mouse CD45.2	BD Biosciences%	104	FC	1 µg/ml
BUV737 hamster anti-mouse TCRβ chain	BD Biosciences%	H57-597	FC	1 µg/ml

Brilliant Violet 421 anti-mouse CD279 (PD-1)	BioLegend*	29F.1A12	FC	5 µg/ml
Brilliant Violet 421 anti-mouse/human CD11b	BioLegend*	M1/70	FC	10 µg/ml
CD335 (NKp46) monoclonal antibody, eFluor 450	eBioscience <sup>#</sup>	29A1.4	FC	2 µg/ml
Brilliant Violet 421 anti-mouse F4/80	BioLegend*	BM8	FC	2 µg/ml
Brilliant Violet 421 anti-mouse FOXP3	BioLegend*	MF-14	FC	4 µg/ml
Brilliant Violet 605 anti-mouse CD4	BioLegend*	GK1.5	FC	1 µg/ml
			CS	1 µg/ml
Brilliant Violet 605 anti-mouse CD4	BioLegend*	RM4-5	FC	1 µg/ml
			CS	1 µg/ml
Brilliant Violet 605 anti-mouse NK1.1	BD Biosciences <sup>%</sup>	PK136	FC	1 µg/ml
Brilliant Violet 605 anti-mouse Ly-6C	BioLegend*	HK1.4	FC	10 µg/ml
Brilliant Violet 650 anti-mouse/human CD11b	BioLegend*	M1/70	FC	0.25 µg/ml
Brilliant Violet 650 anti-mouse/human CD45R/B220	BioLegend*	RA3-6B2	FC	10 µg/ml
Brilliant Violet 650 rat anti-mouse IFN $\gamma$	BD Biosciences <sup>%</sup>	XMG1.2	FC	2 µg/ml
Brilliant Violet 650 anti-mouse TNF $\alpha$	BioLegend*	MP6-XT22	FC	2 µg/ml
Brilliant Violet 711 anti-mouse CD45.2	BioLegend*	104	FC	2 µg/ml
Brilliant Violet 785 anti-mouse CD11c	BioLegend*	N418	FC	2.9 µg/ml
Brilliant Violet 785 anti-mouse CD223 (LAG3)	BioLegend*	C9B7W	FC	4 µg/ml
T-bet monoclonal antibody, eFluor 660	eBioscience <sup>#</sup>	eBio4B10 (4B10)	FC	4 µg/ml
FITC anti-mouse CD4	BioLegend*	GK1.5	FC	2.5 µg/ml
FITC anti-mouse CD8a	BioLegend*	53-6.7	FC	2.5 µg/ml
FITC anti-mouse CD11a	BioLegend*	M17/4	FC	10 µg/ml
FITC anti-mouse CD45.1	BioLegend*	A20	FC	5 µg/ml

FITC anti-mouse CD45.2	BioLegend*	104	FC	2.5 µg/ml
FITC anti-mouse TCR β chain	BioLegend*	H57-597	FC	2.5 µg/ml
LEAF™ Purified anti-mouse CD28	BioLegend*	37.51	IVP	2 µg/ml
LEAF™ Purified anti-mouse IFN-gamma	BioLegend*	XMG1.2	IVP	10 µg/ml
LEAF™ Purified anti-mouse IL-4	BioLegend*	11B11	IVP	10 µg/ml
Pacific Blue anti-human/mouse Granzyme B	BioLegend*	GB11	FC	1 µl/sample
Pacific Blue anti-mouse I-A/I-E	BioLegend*	M5/114. 15.2	FC	1.25 µg/ml
PE anti-mouse CD8a	BioLegend*	53-6.7	FC	1 µg/ml
PE anti-mouse CD62L	BioLegend*	MEL-14	CS	1 µg/ml
PE anti-mouse CD226 (DNAM-1)	BioLegend*	480.1	FC	1 µg/ml
PE anti-mouse Granzyme B	eBioscience <sup>#</sup>	GB11	FC	0.06 µg/ml
Granzyme B Monoclonal Antibody, PE	Invitrogen <sup>&amp;</sup>	GB11	FC	1 µl/sample
PE anti-mouse I-A/I-E	BioLegend*	M5/114. 15.2	FC	0.4 µg/ml
PE anti-mouse IL-10	BioLegend*	JESS5-16E3	FC	2 µg/ml
PE anti-mouse Perforin	BioLegend*	S16009B	FC	2 µg/ml
Mouse Rae-1 Pan Specific PE-conjugated antibody	R&D Systems <sup>@</sup>	186107	FC	5 µl/sample
PE Mouse Anti-Stat3 (pY705)	BD Biosciences <sup>%</sup>	4/P-STAT3	FC	1 µl/sample
PE Mouse Anti-Stat4 (pY693)	BD Biosciences <sup>%</sup>	38/p-Stat4	FC	1 µl/sample
PE/Cy7 anti-human/mouse/rat CD278 (ICOS)	BioLegend*	C398.4A	FC	4 µg/ml
PE/Cy7 anti-mouse CD8α	BioLegend*	53-6.7	FC	1 µg/ml
PE/Cy7 anti-mouse CD25	BioLegend*	PC61	CS	1 µg/ml
PE/Cy7 anti-mouse CD49d	BioLegend*	R1-2	FC	4 µg/ml
PE/Cy7 anti-mouse F4/80	BioLegend*	BM8	FC	4 µg/ml
PE/Cy7 anti-mouse IFNγ	BioLegend*	XMG1.2	FC	1 µg/ml
PE/Cy7 anti-mouse Ly-6G	BioLegend*	1A8	FC	1 µg/ml

NK1.1 monoclonal antibody, PE-Cyanine7	eBioscience <sup>#</sup>	PK136	FC	1 µg/ml
PE/Cy7 anti-T-bet antibody	BioLegend*	4B10	FC	4 µg/ml
PE/Dazzle 594 anti-mouse CD64 (FcγRI)	BioLegend*	X54-5.71	FC	1 µg/ml
PE/Dazzle 594 anti-mouse CD152	BioLegend*	UC10-4B9	FC	1 µg/ml
PE/Dazzle 594 IFNy	BioLegend*	XMG1.2	FC	1 µg/ml
PE/Dazzle 594 anti-mouse IL-10	BioLegend*	JESS-16E3	FC	4 µg/ml
PerCP/Cy5.5 anti-mouse CD8α	BioLegend*	53-6.7	FC	1 µg/ml
PerCP/Cy5.5 anti-mouse CD11a/CD18	BioLegend*	LFA-1	FC	1 µg/ml
PerCP/Cy5.5 anti-mouse/human CD11b	BioLegend*	M1/70	FC	1 µg/ml
PerCP/Cy5.5 rat anti-mouse CD38	BD Biosciences <sup>%</sup>	90/CD38	FC	4 µg/ml
PerCP/Cy5.5 anti-mouse CD90.2	BioLegend*	30-H12	CS	2 µg/ml
PerCP/Cy5.5 anti-mouse TCRβ	BioLegend*	H57-597	FC	0.5 µg/ml
TruStain fcX™ (anti-mouse CD16/32)	BioLegend*	93	FC	1.25 µg/ml
Ultra-LEAF™ Purified anti-mouse CD3ε	BioLegend*	145-2C11	IVP	4 µg/ml

\*BioLegend, San Diego CA, USA; <sup>#</sup>eBioscience, Thermo Fisher Scientific, Waltham MA, USA;

<sup>%</sup>BD Biosciences, San Jose CA, USA; <sup>^</sup>Miltenyi Biotec, Bergisch Gladbach, Germany;

<sup>&</sup>Invitrogen, Carlsbad CA, USA; <sup>@</sup>R&D Systems, Minneapolis MN, USA; FC, flow cytometry; IF, immunofluorescence; CS, fluorescence-activated cell sorting; IVP, in vitro polarization