

Cytek® 25-Color Immunoprofiling Assay, cFluor® Reagent Kit (18C)

Description

The Cytek® 25-Color Immunoprofiling Assay is designed and optimized by Cytek scientists to provide a turnkey solution for identifying major human immune subpopulations for T, B, NK cells, monocytes, dendritic cells, and basophils - all of which play important roles in the innate and adaptive immune response in various diseases.

[Cytek® 25-Color Immunoprofiling Assay, cFluor® Reagent Kit \(18C\)](#) includes 18 cFluor reagents offered by Cytek®.

* [Immunoprofiling Kit, 7 Color \(Brilliant Violet™\)](#) includes 7 Brilliant Violet reagents available for purchase from BioLegend®.

Violet		Blue		Yellow-Green		Red	
Specificity	Fluorochrome	Specificity	Fluorochrome	Specificity	Fluorochrome	Specificity	Fluorochrome
CCR7	Brilliant Violet BV421™	CD141	cFluor® B515	CD25	cFluor® BYG575	CD127	cFluor® R659
CD45RA	cFluor® V450	CD8	cFluor® B532	CD4	cFluor® YG584	CD1c	cFluor® R668
IgM	Brilliant Violet BV510™	CD14	cFluor® B548	CD16	cFluor® BYG610	CD19	cFluor® R685
CD20	cFluor® V547	HLADR	cFluor® B690	IgD	cFluor® BYG667	CD123	cFluor® R720
CD3	Brilliant Violet BV570™			TCRgd	cFluor® BYG710	CD45	cFluor® R780
CD28	Brilliant Violet BV650™			CD11c	cFluor® BYG781	Viability	ViaDye™ Red
CD38	Brilliant Violet BV711™					CD127	cFluor® R840
CD56	Brilliant Violet BV750™						
PD-1	Brilliant Violet BV785™						

Summary Statistics for Populations of Interest
Sample ID: Unmixed_25c Immunoprofiling Panel.fcs compensated

Main Subsets		
Population	% of Live Cells	
CD45+	97.29	% of CD45+
Monocytes	25.01	25.70
Lymphs, NKs, DCs	67.61	69.50

Monocytes		
Population	% Live Cells	% of Monocytes
Non-classical	0.08	0.32
Intermediate	2.44	9.77
Classical	21.97	87.84

Basophils		
Population	% of Live Cells	
CD45int CD123+	1.76	% of CD45int CD123+
CD123+ Basophils	1.15	65.49

NK Cells - CD3-TCRgd-		
Population	% of Live Cells	% of CD3-TCRgd-
CD3-HLADR-	4.29	27.31
		% of CD3-HLADR-
Early NK	0.12	2.91
Mature NK	2.59	60.28
Terminal NK	0.32	7.56

NKT-Like Cells		
Population	% of Live Cells	% of CD3+TCRgd-
CD3+CD56-	46.16	95.66
CD3+CD56+	2.06	4.27

B Cells - CD3-TCRgd-		
Population	% of Live Cells	% of CD3-TCRgd-
CD3-TCRgd-CD19-CD20-	5.66	35.96
CD19+CD20+	10.00	63.58
		% of CD19+ CD20+
Naive B cells	6.78	67.81
Marginal zone-like	0.53	5.27
Memory B cells	1.89	18.91
		% of Memory B Cells
Plasmablasts	0.79	41.83
IgD-Memory	1.10	58.00

Lymphs, NKs, DCs		
Population	% of Live Cells	% of Lymphs, NKs, DCs
CD3-TCRgd-	15.73	23.26
TCRgd+	3.41	5.05
CD3+TCRgd-	48.25	71.37

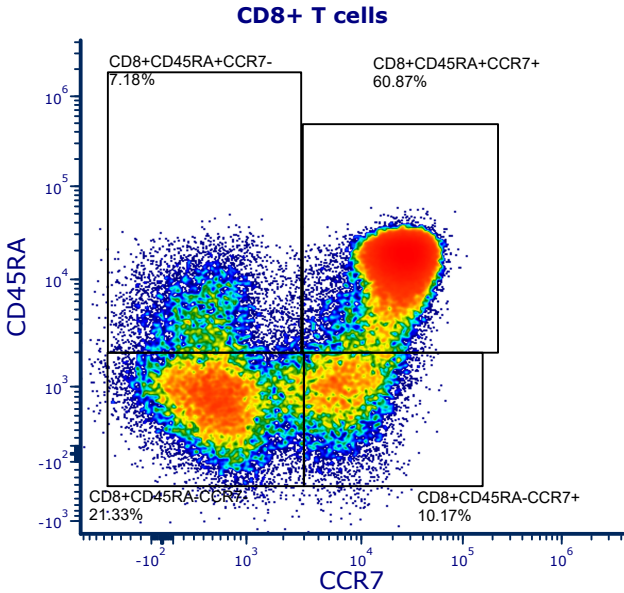
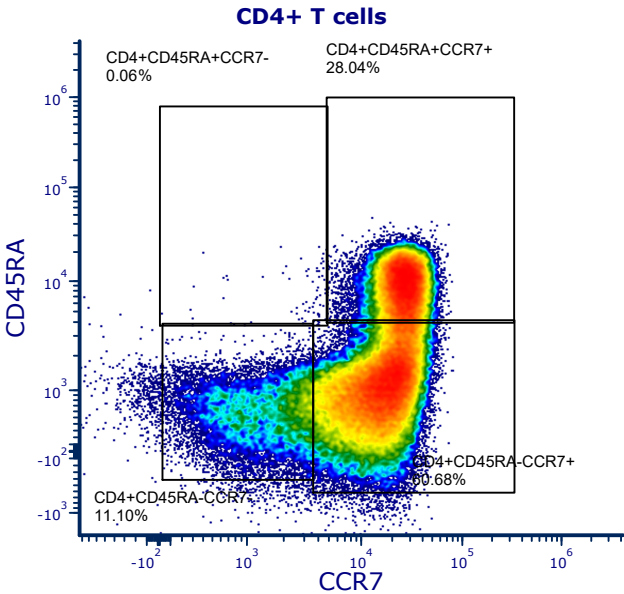
T Cells- CD3+TCRgd-		
Population	% of Live Cells	% of CD3+ CD56-
CD8+ T cells	17.39	37.68
CD4-CD8- T cells	0.31	0.67
CD4+ T cells	27.98	60.61
		% of CD4+ T Cells
T regs	3.10	11.07

Gamma Delta T Cells		
Population	% of Live Cells	% of TCRgd+
CCR7-CD45RA+TCRgd+	0.85	24.78
CCR7-CD45RA-TCRgd+	1.78	52.10
CCR7+TCRgd+	0.71	20.69

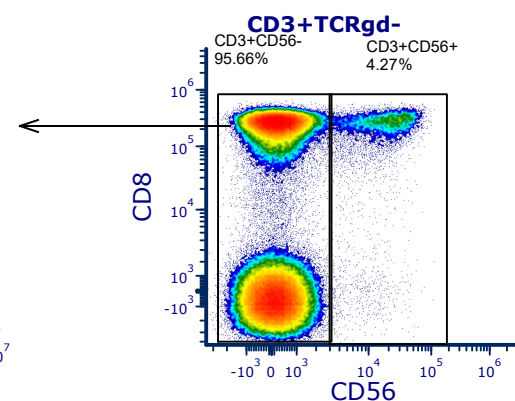
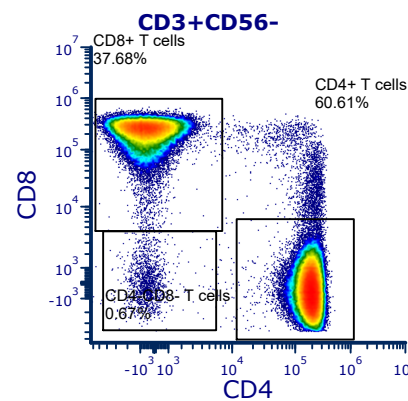
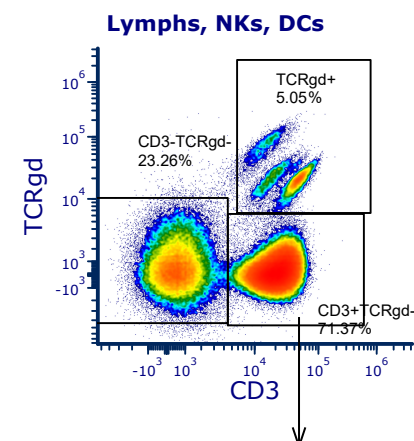
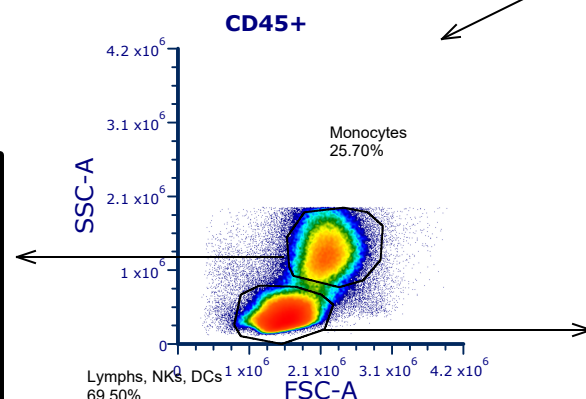
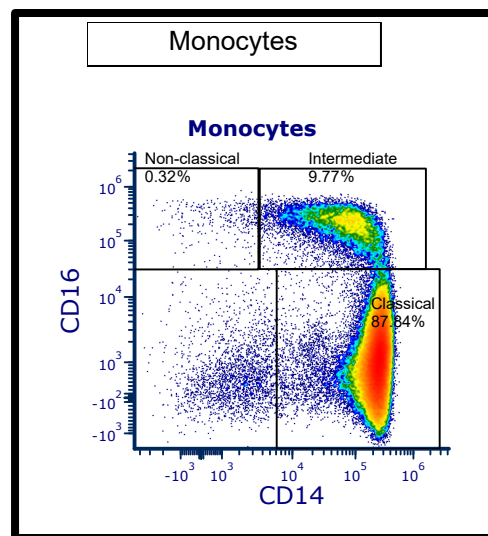
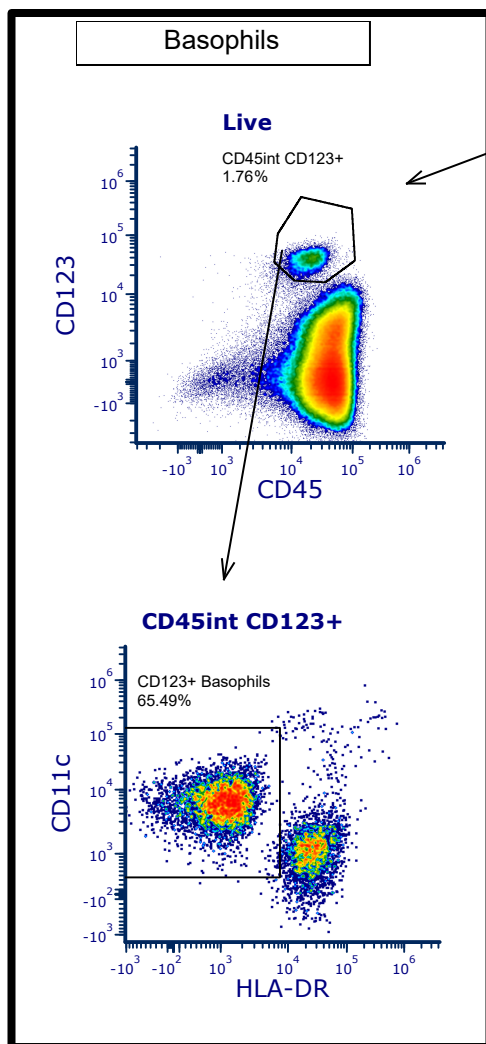
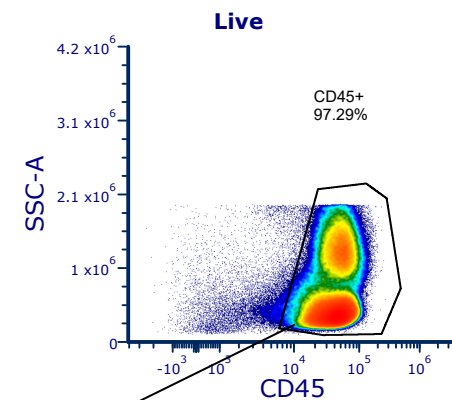
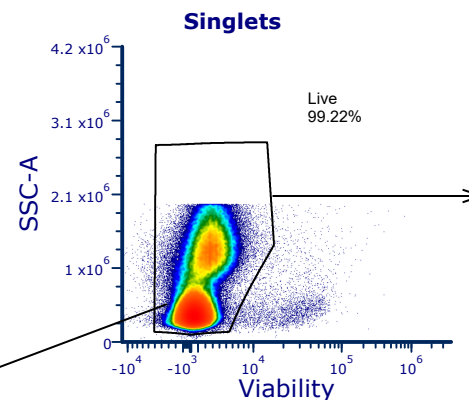
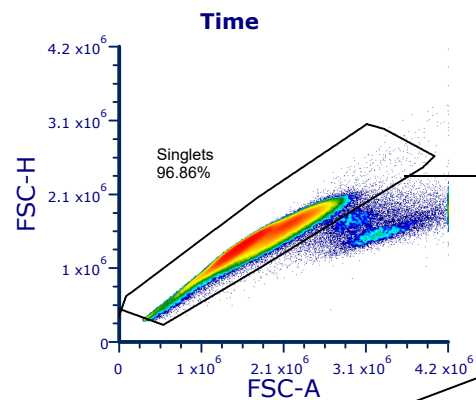
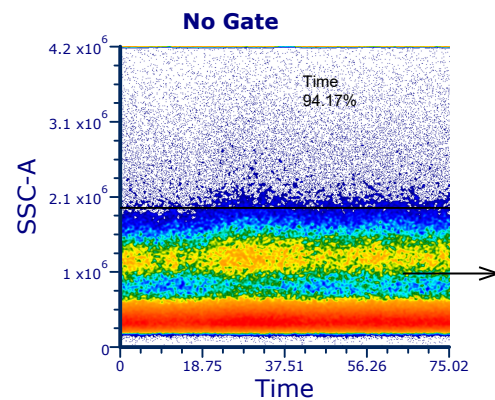
Dendritic Cells - CD3-TCRgd-		
Population	% Live Cells	% of CD3-TCRgd-
Lin neg	2.96	18.80
		% of Lin neg
Lin neg DR+	1.14	38.55
		% of Lin neg DR+
CD123+pDCs	0.40	34.99
CD11c+DCs	0.52	45.93
		% of CD11c+DCs
CD11c+CD16+DCs	0.30	57.00
CD11c+CD16-DCs	0.17	32.36
		% of CD11c+CD16-DCs
CD1c-CD141+DCs	0.06	32.86
CD1c+DCs	0.11	64.31

ILCs - CD3-TCRgd-CD19-CD20-		
Population	% of Live Cells	% of CD3-TCRgd-CD19-CD20-
CD14-CD123-	3.70	65.50
		% of CD14-CD123-
CD14-CD123-CD16-DR-	0.38	10.35
		% of CD14-CD123-CD16-DR-
CD14-CD123-CD16-DR-CD4-CD8-	0.15	39.19
		% of CD14-CD123-CD16-DR-CD4-CD8-
ILCs	0.08	52.68

CD4+ Naive, Central Memory, Effector Memory		
Population	% of Live Cells	% of CD4+ T Cells
CD4+CD45RA+CCR7+	7.84	28.04
		% of CD4+CD45RA+CCR7+
Naive CD4+	7.84	99.99
		% of CD4+ T Cells
CD4+CD45RA-CCR7+	16.98	60.68
		% of CD4+CD45RA-CCR7+
CD4+CD27+CD28+Central Memory	16.73	98.54
		% of CD4+ T Cells
CD4+CD45RA-CCR7-	3.11	11.10
		% of CD4+CD45RA-CCR7-
Early-like Effector CD4+	0.47	15.13
Early Effector CD4+	2.58	83.22
Terminal Effector CD4+	0.03	1.04
		% of CD4+ T Cells
CD4+CD45RA+CCR7-	0.02	0.06
		% of CD4+ CD45RA+CCR7-
CD45RA Terminal Effector CD4+	0.00	11.27

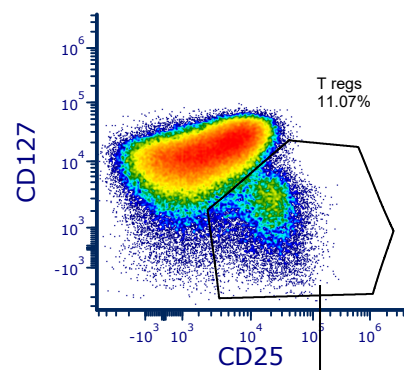


CD8+ Naive, Central Memory, Effector Memory		
Population	% of Live Cells	% of CD8+ T Cells
CD8+CD45RA+CCR7+	10.59	60.87
		% of CD8+CD45RA+CCR7+
Naive CD8+	10.46	98.77
		% of CD8+ T Cells
CD8+CD45RA-CCR7+	1.77	10.17
		% of CD8+CD45RA-CCR7+
CD8+CD27+CD28+Central Memory	1.57	88.63
		% of CD8+ T Cells
CD8+CD45RA-CCR7-	3.71	21.33
		% of CD8+CD45RA-CCR7-
Early-like Effector CD8+	0.13	3.62
Early Effector CD8+	1.37	36.96
Intermediate Effector CD8+	1.30	34.94
Terminal Effector CD8+	0.91	24.48
		% of CD8+ T Cells
CD8+CD45RA+CCR7-	1.25	7.18
		% of CD8+CD45RA+CCR7-
CD45RA Terminal Effector CD8+	0.66	53.20

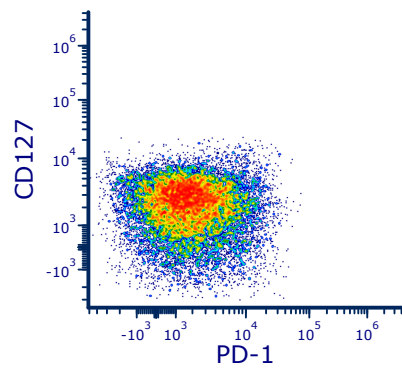


Regulatory T Cells

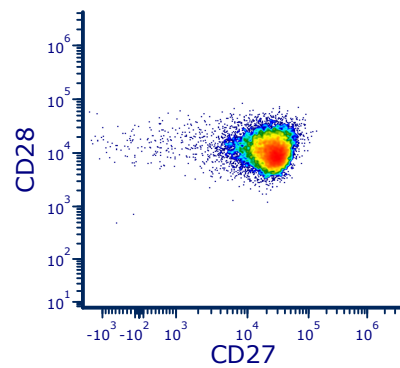
CD4+ T cells



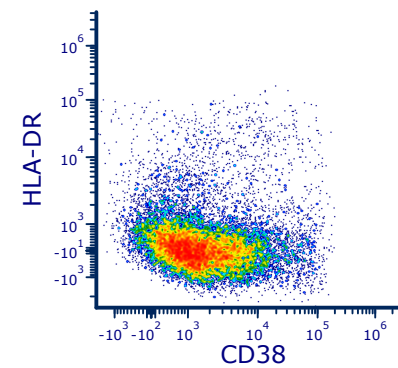
T regs



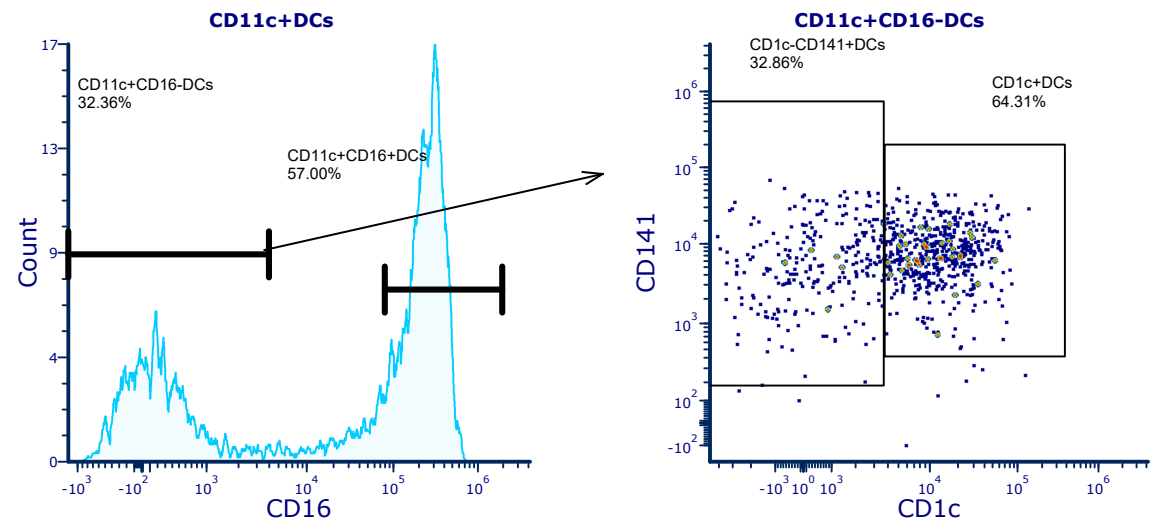
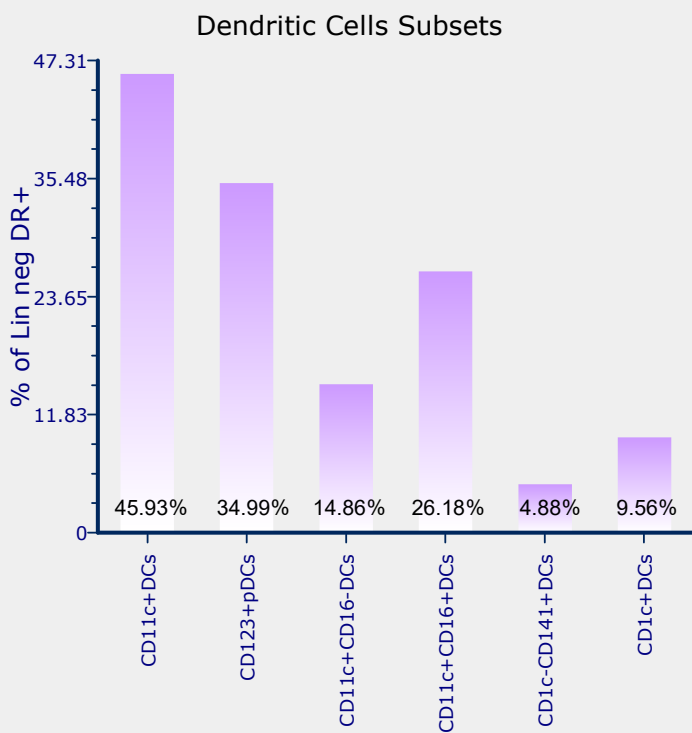
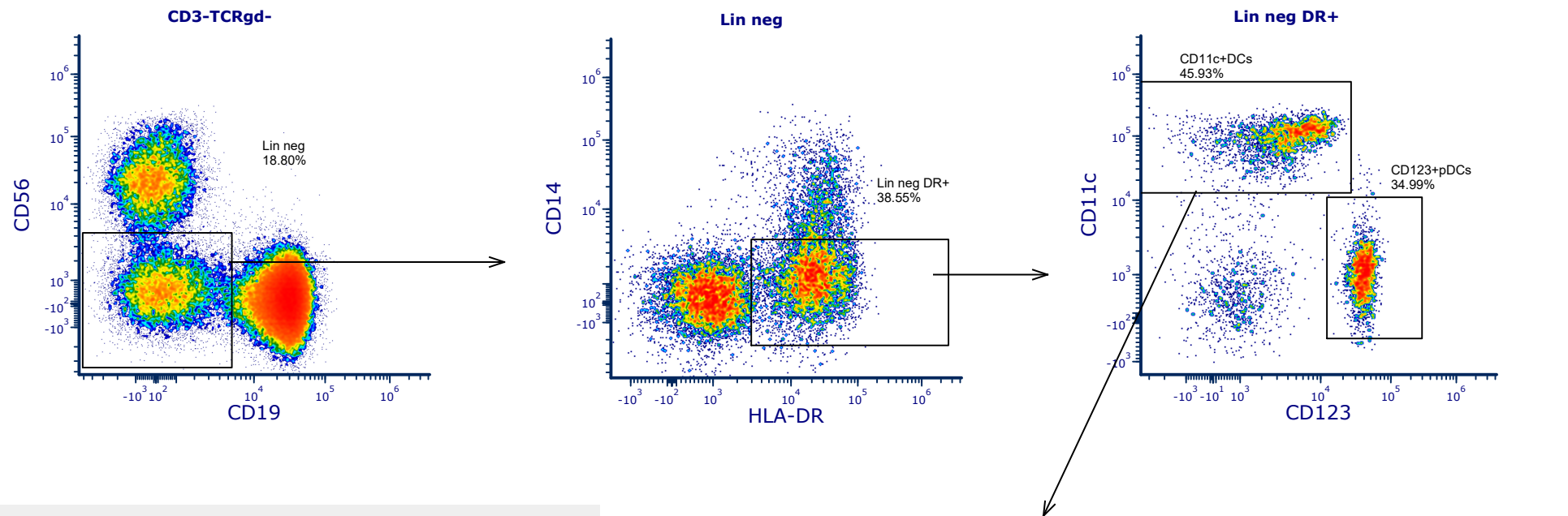
T regs



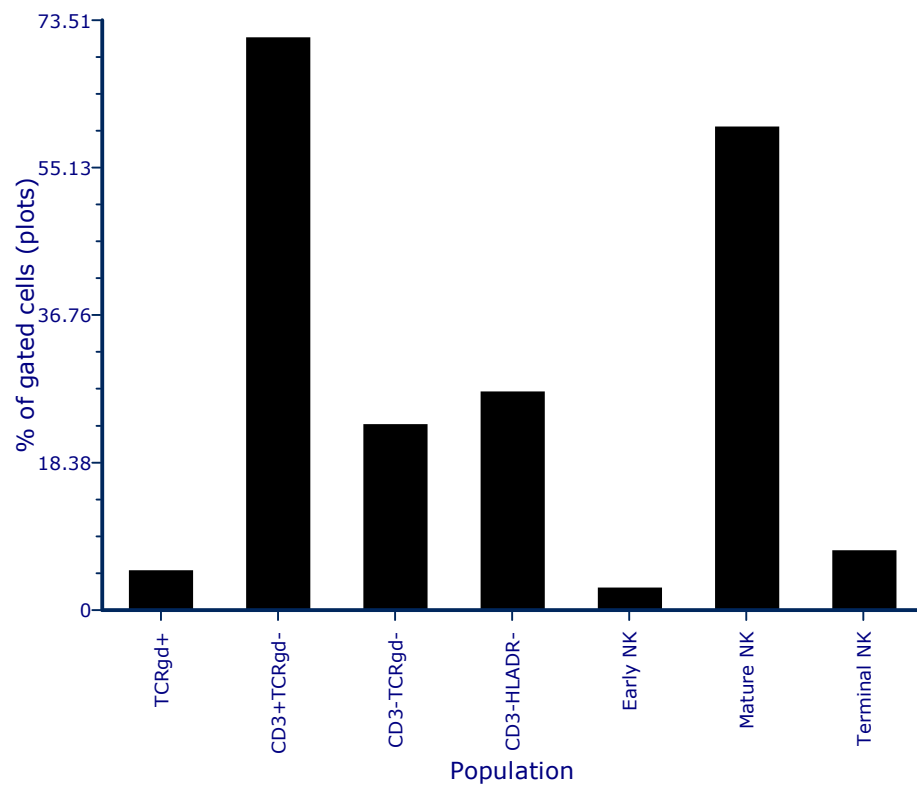
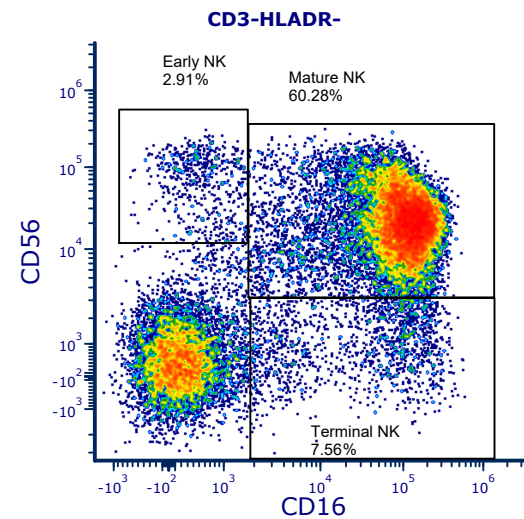
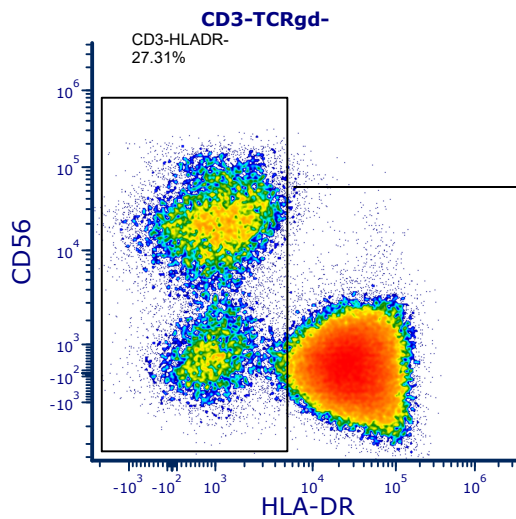
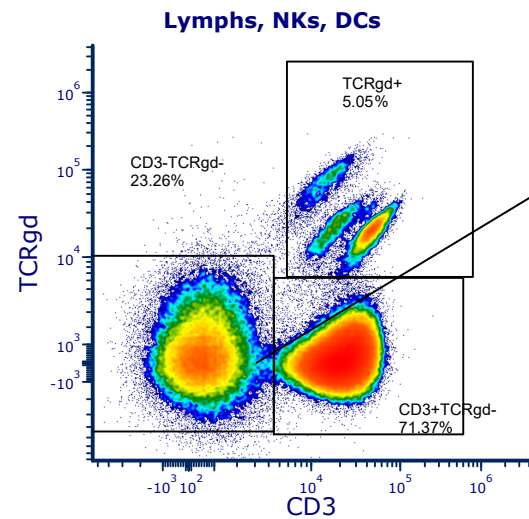
T regs



Dendritic Cells



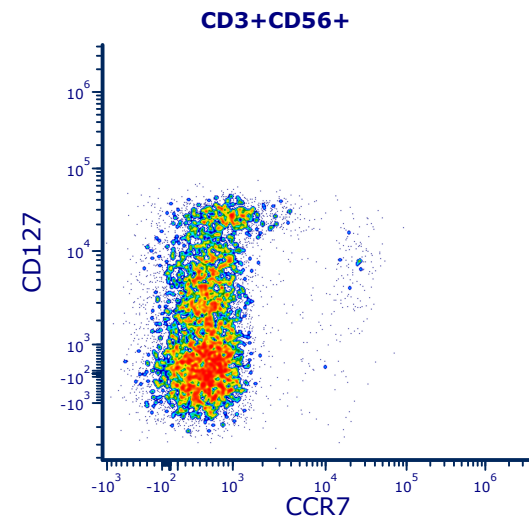
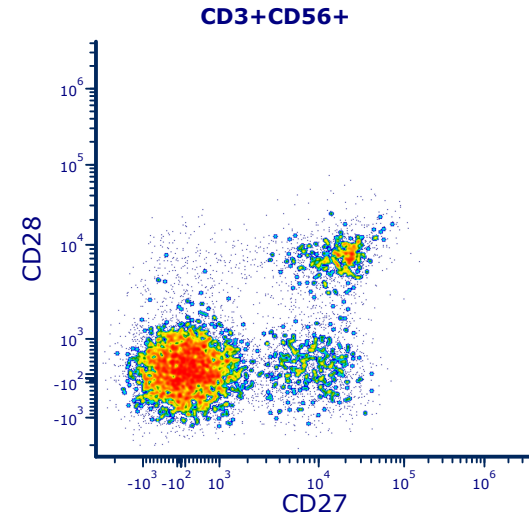
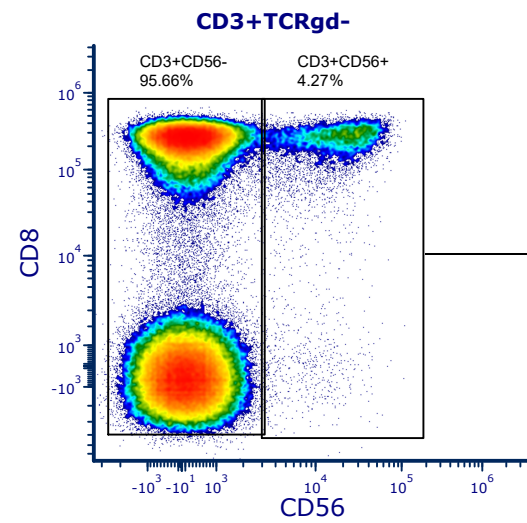
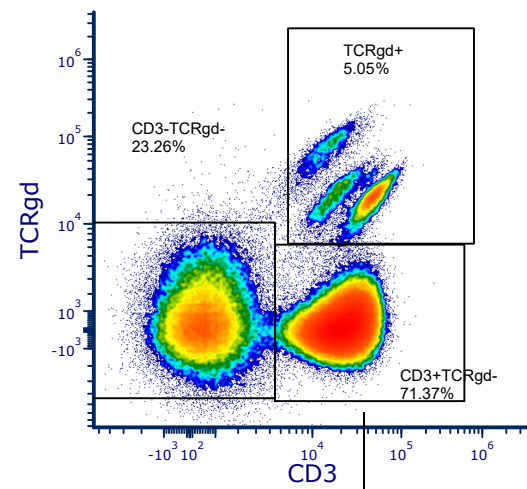
NK Cells



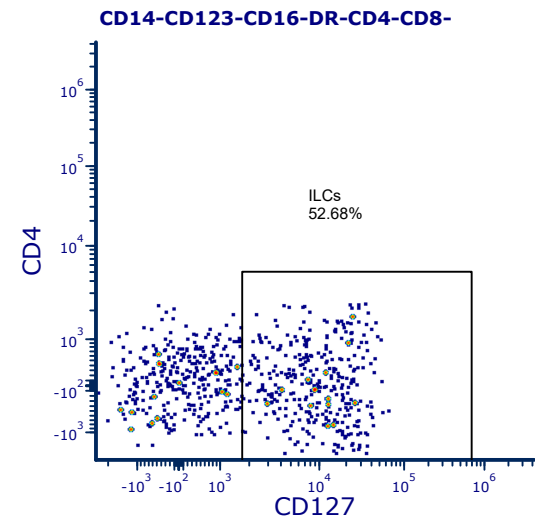
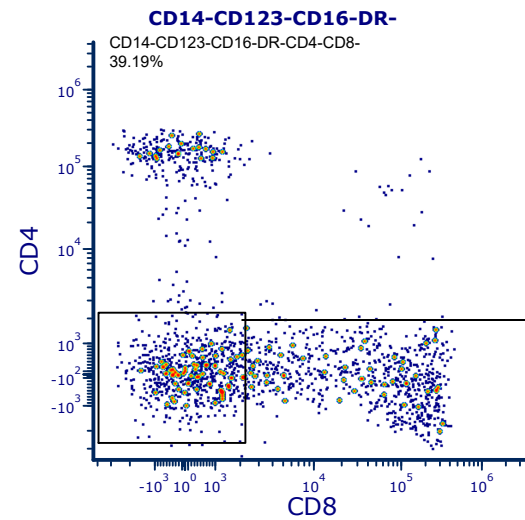
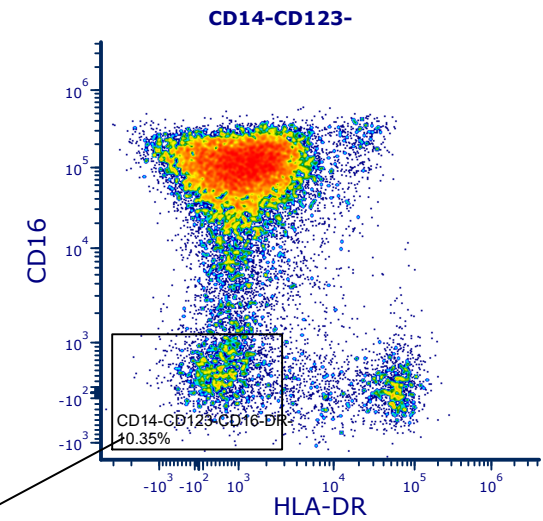
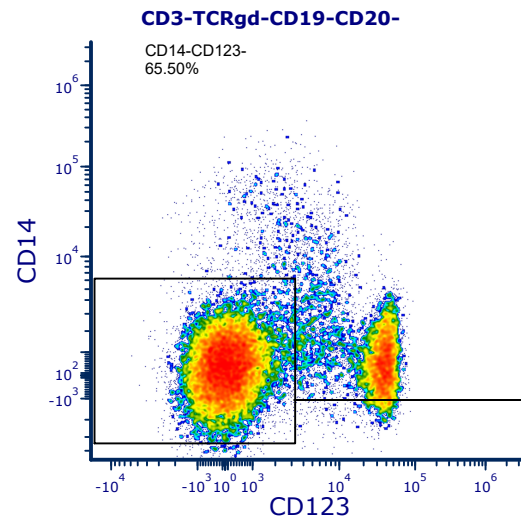
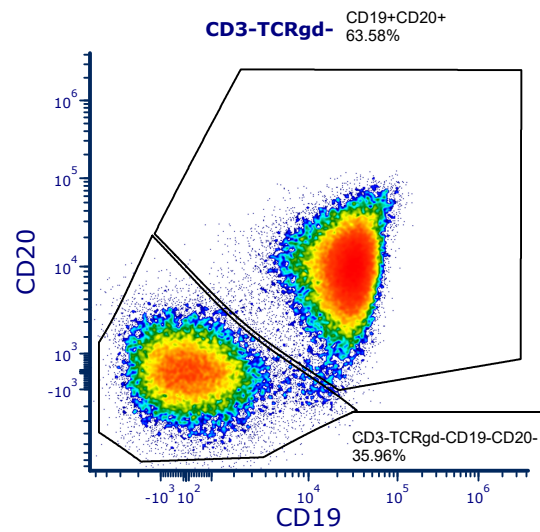
NK Cells		
Population	% of gated cells (plot)	# of Events
TCRgd+	5.05	15694
CD3+TCRgd-	71.37	221917
CD3-TCRgd-	23.26	72321
CD3-HLADR-	27.31	19750
Early NK	2.91	574
Mature NK	60.28	11905
Terminal NK	7.56	1493

NKT-Like Cells

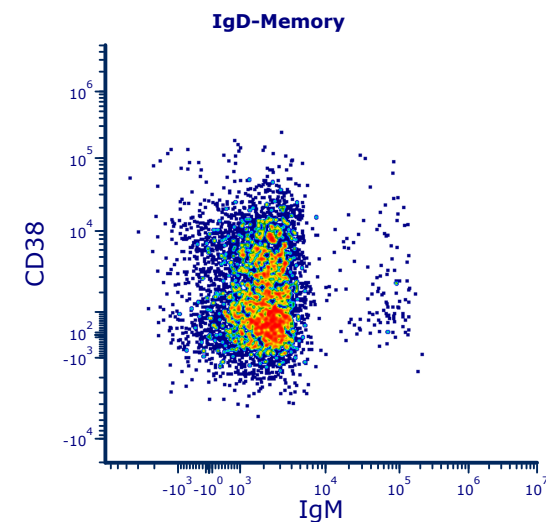
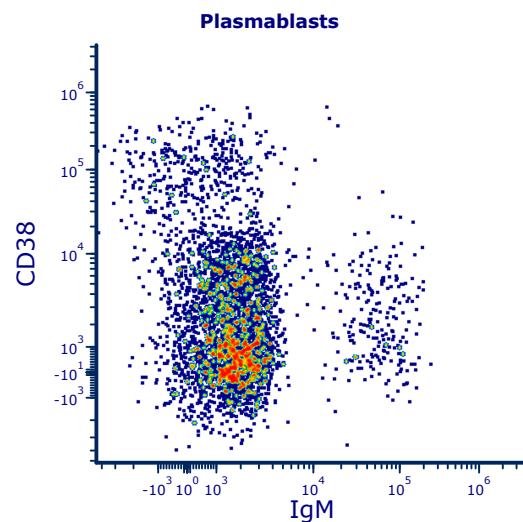
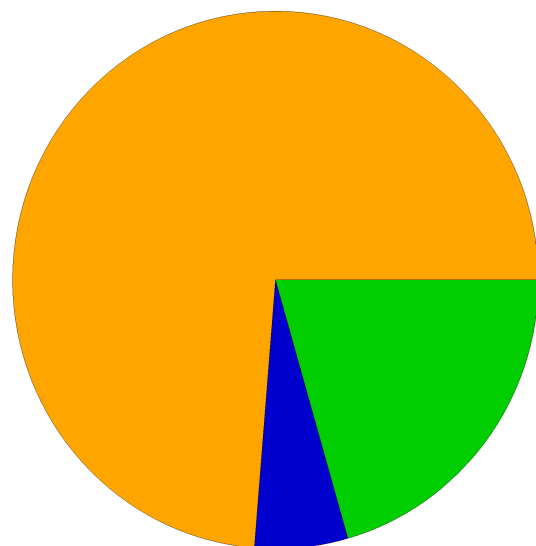
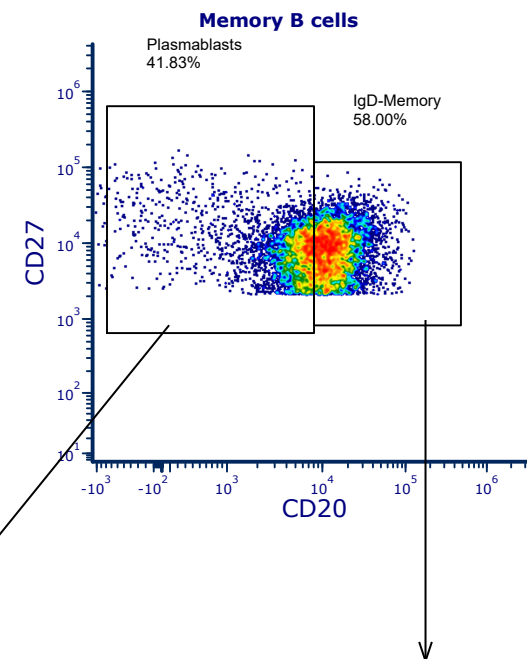
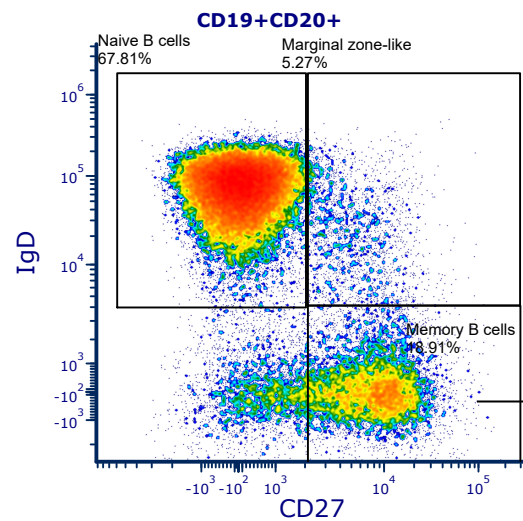
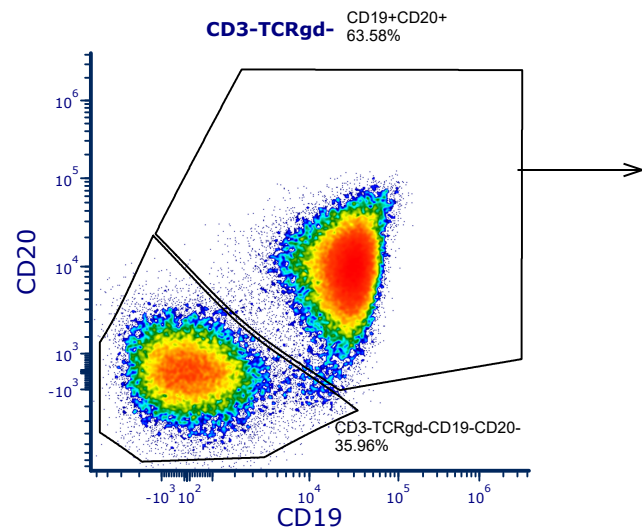
Lymphs, NKs, DCs



ILCs

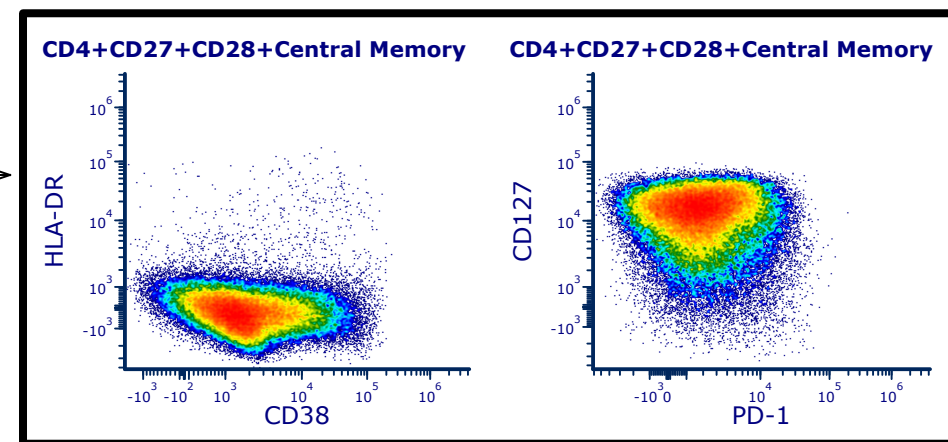
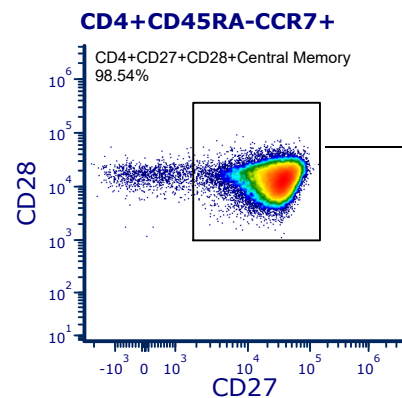
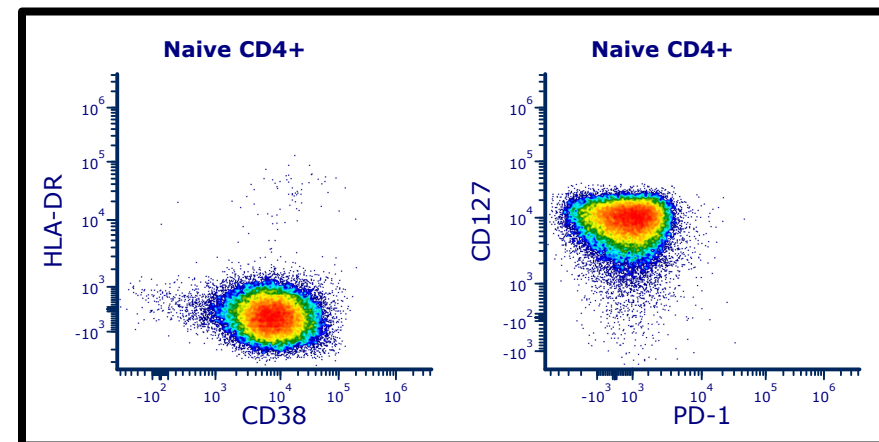
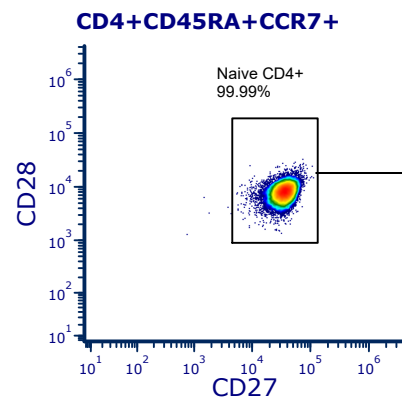
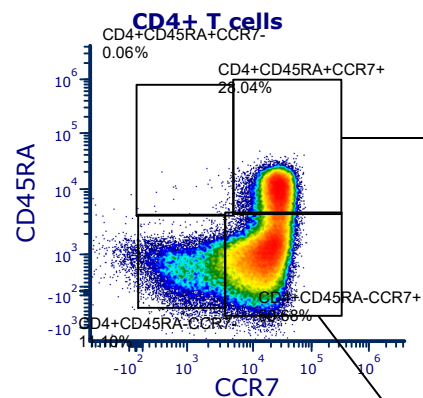


B Cells

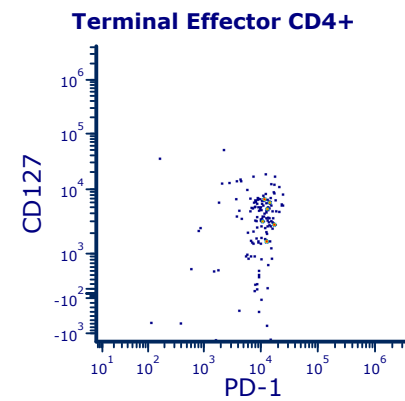
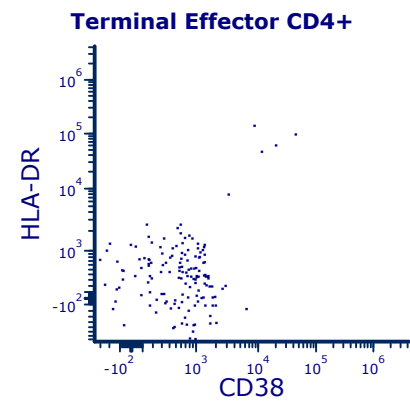
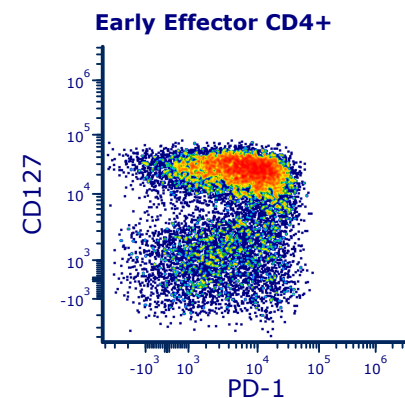
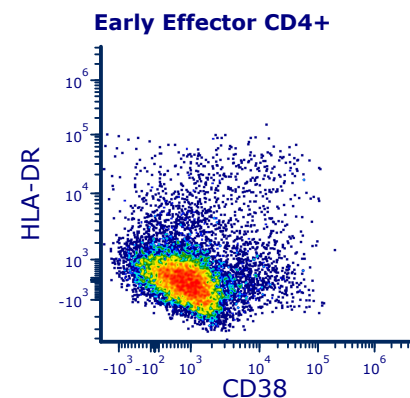
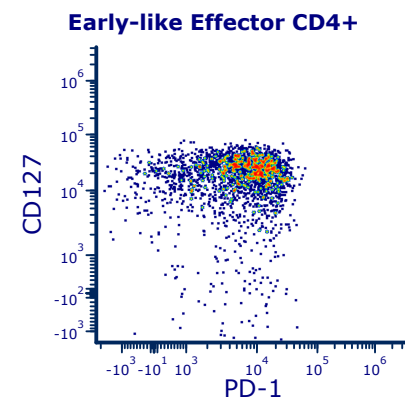
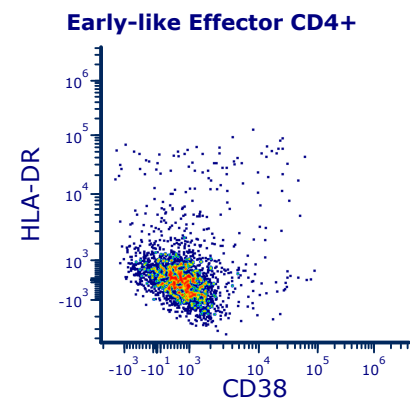
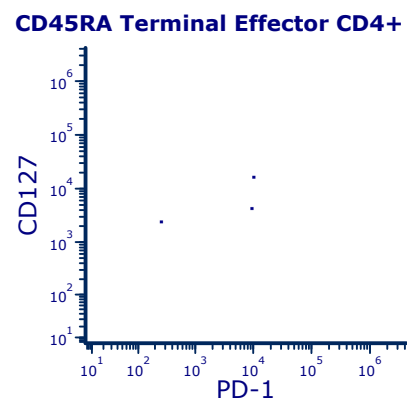
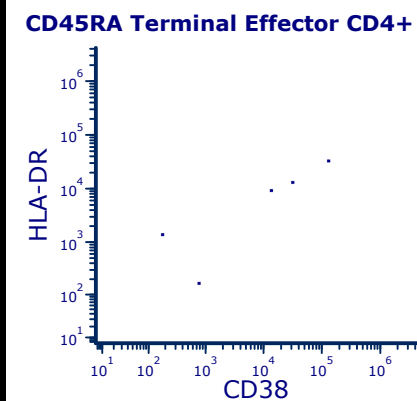
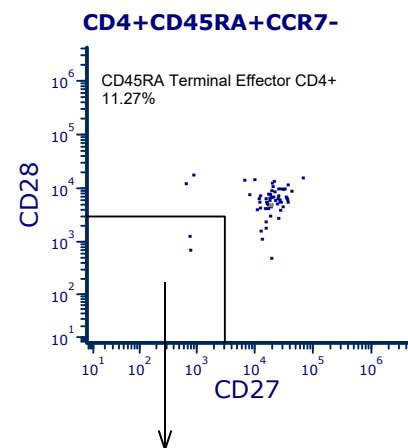
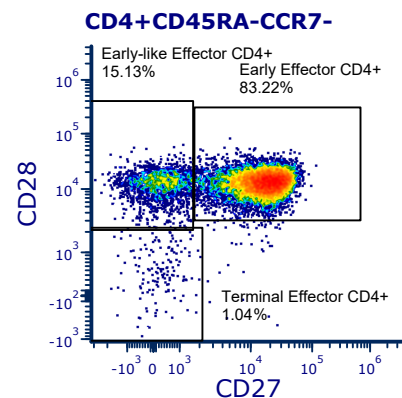
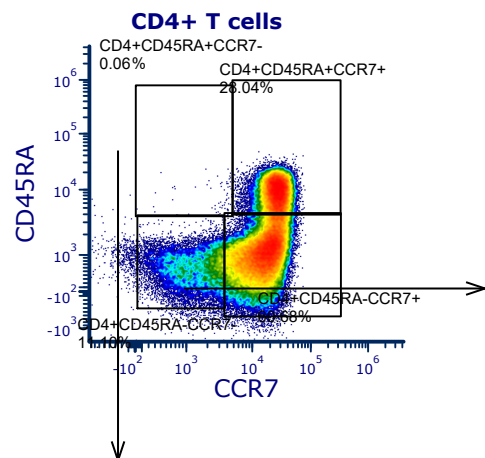


- Naive B Cells # of events 31181
- Marginal zone-like # of events 2422
- Memory B Cells # of events 8698

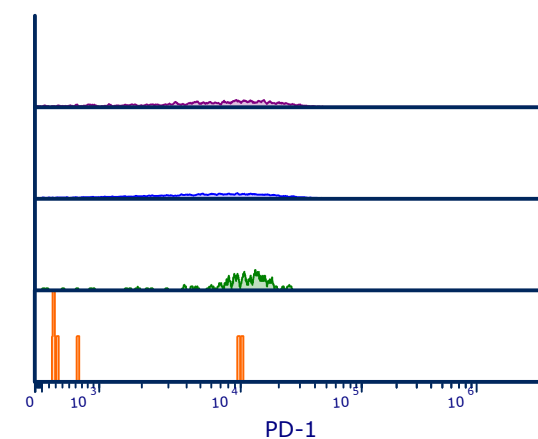
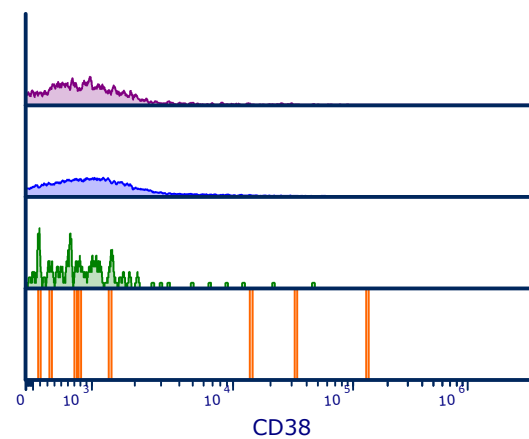
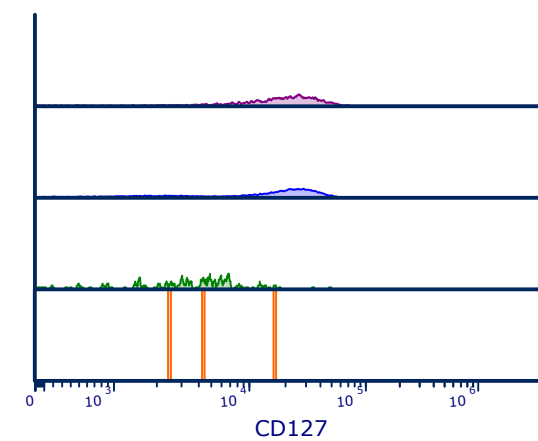
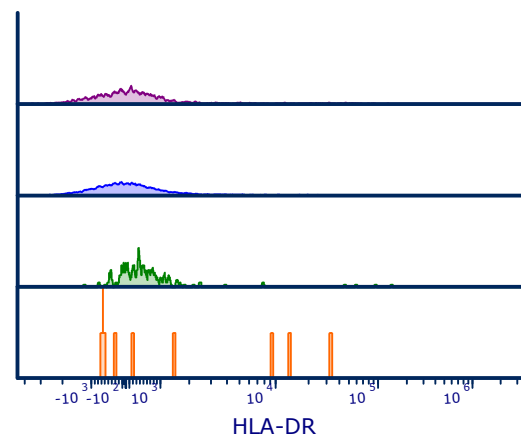
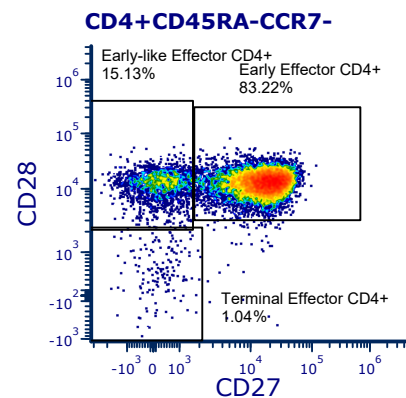
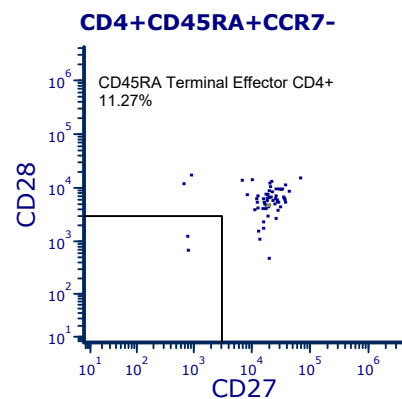
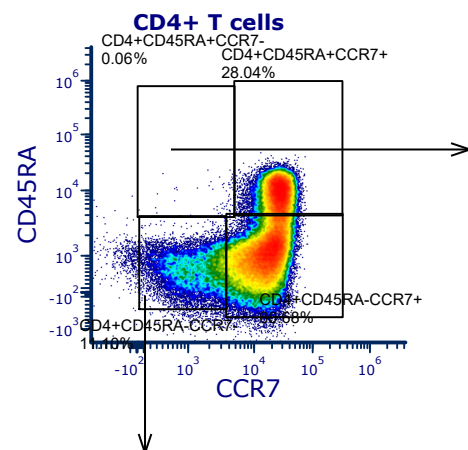
CD4 T Cells



CD4 T Cells

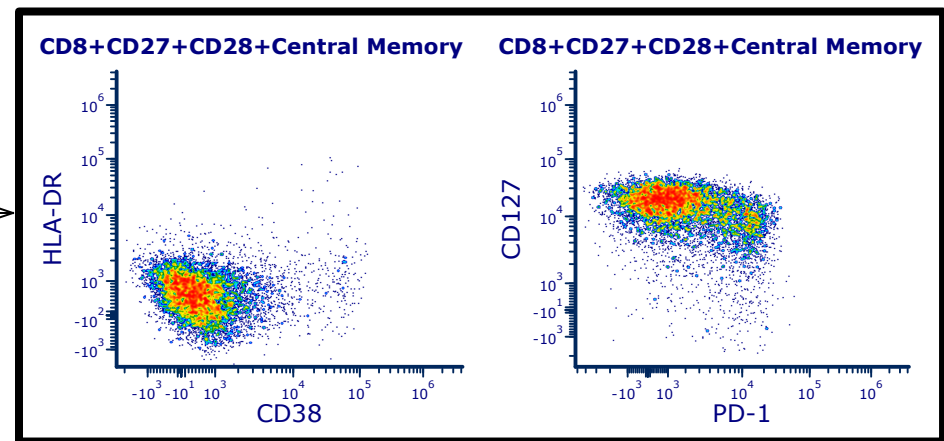
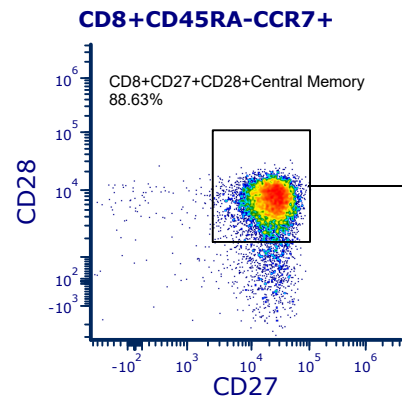
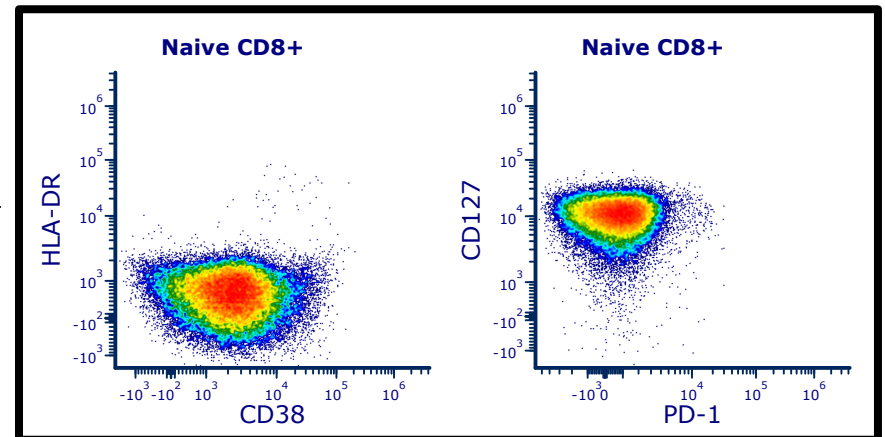
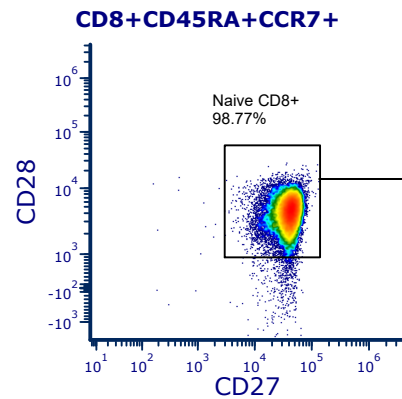
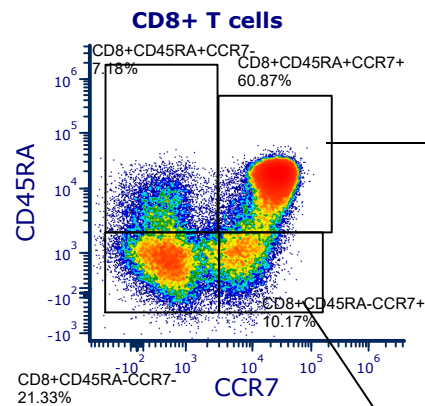


CD4 T Cells

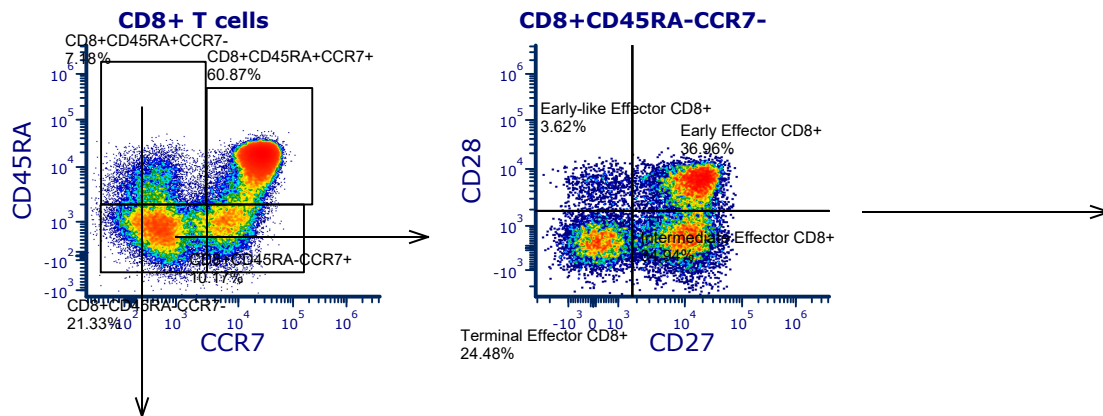


- Early-Like Effector CD4+
- Early Effector CD4+
- Terminal Effector CD4+
- CD45RA Terminal Effector CD4+

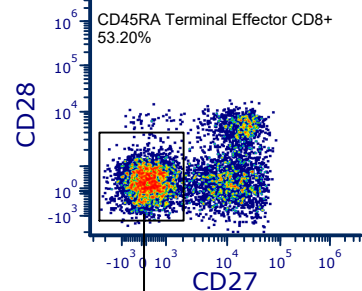
CD8 T Cells



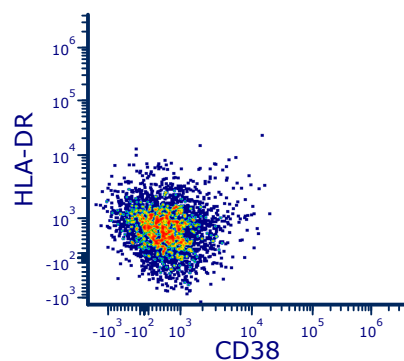
CD8 T Cells



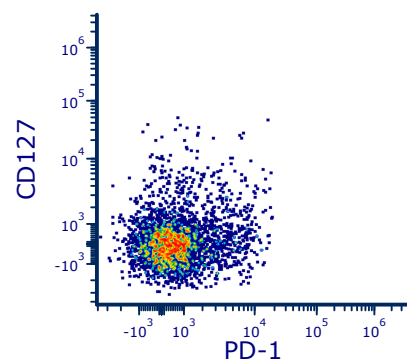
CD8+CD45RA+CCR7-



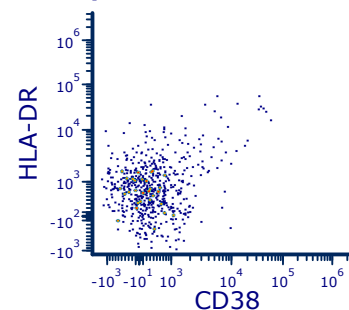
CD45RA Terminal Effector CD8+



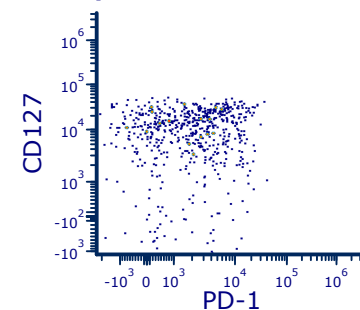
CD45RA Terminal Effector CD8+



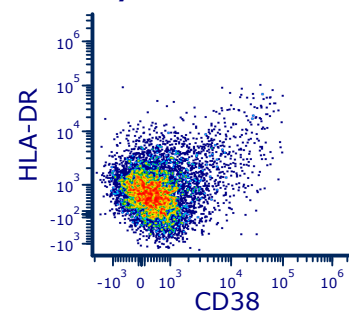
Early-like Effector CD8+



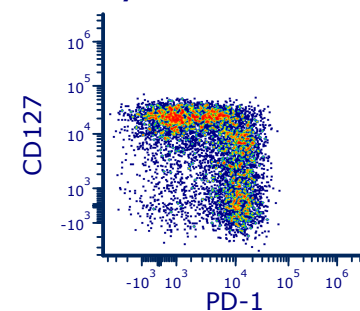
Early-like Effector CD8+



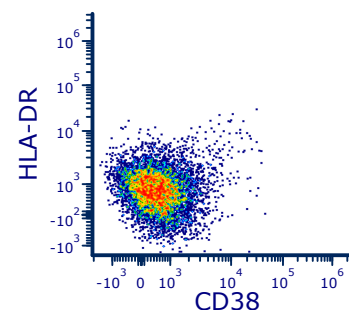
Early Effector CD8+



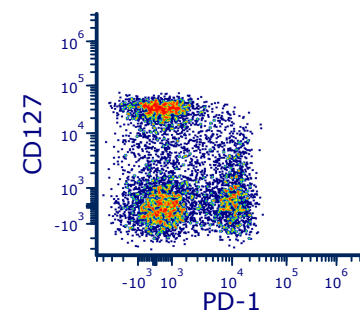
Early Effector CD8+



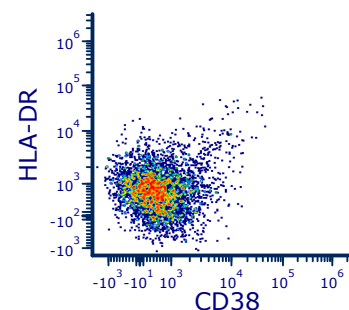
Intermediate Effector CD8+



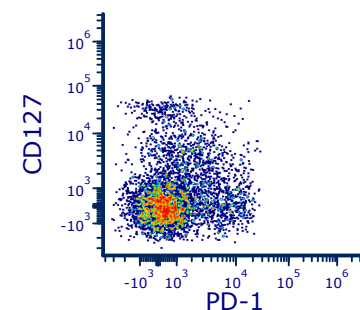
Intermediate Effector CD8+



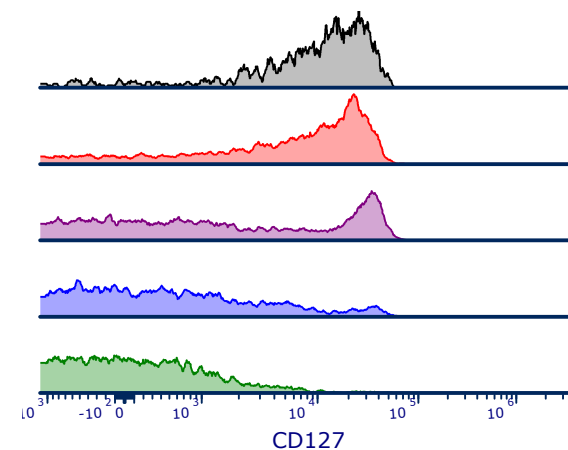
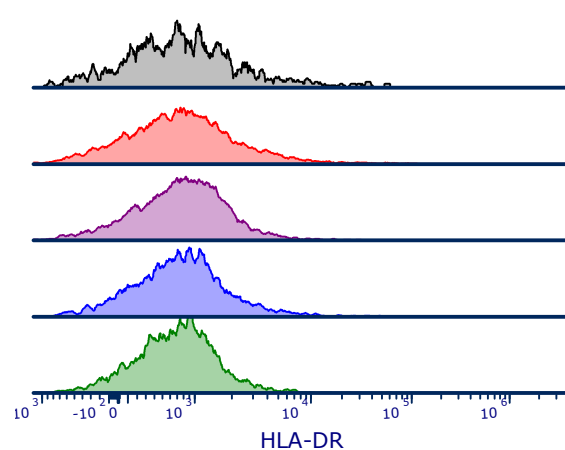
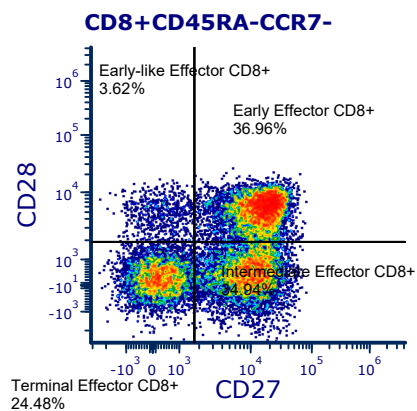
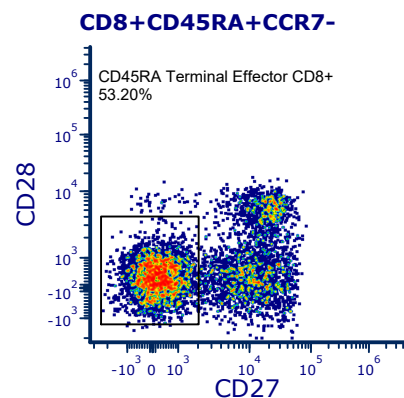
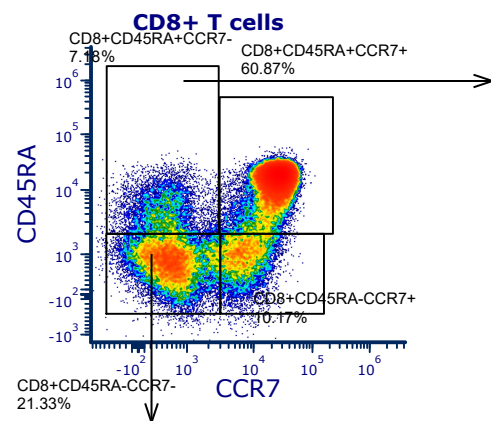
Terminal Effector CD8+



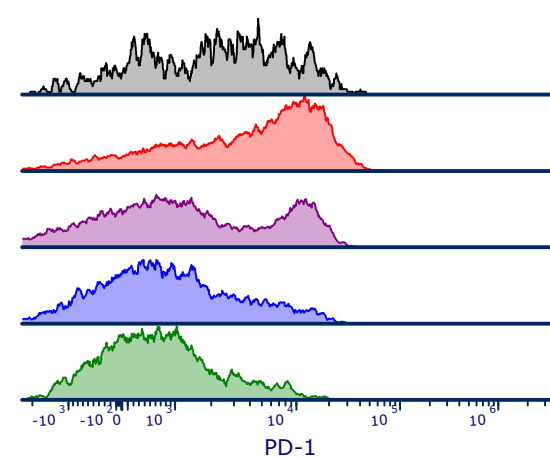
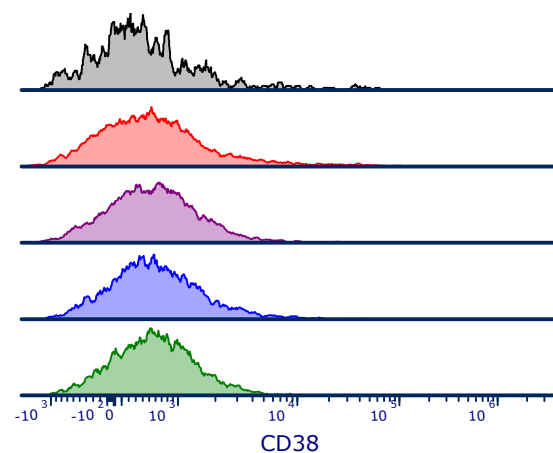
Terminal Effector CD8+



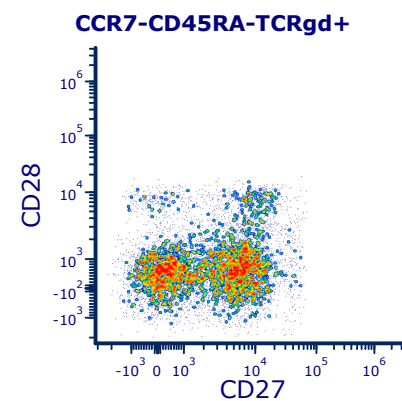
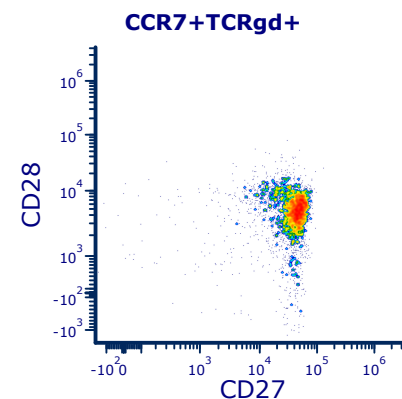
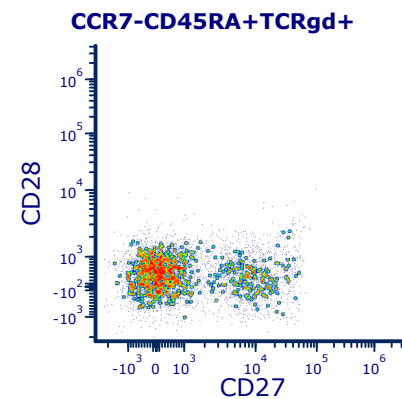
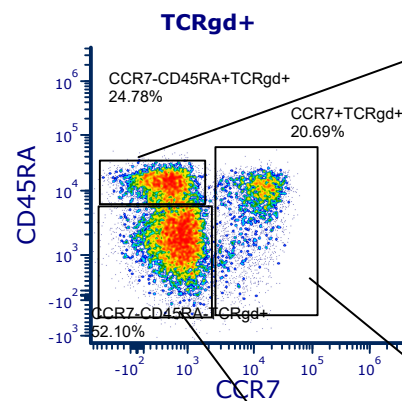
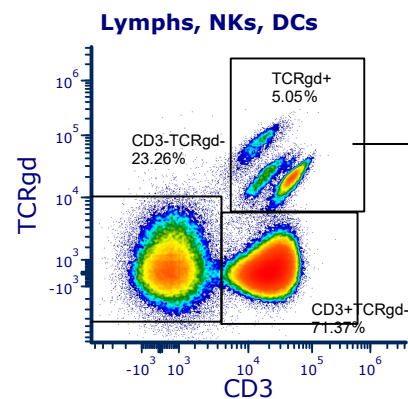
CD8 T Cells



- Early-Like Effector CD8+
- Early Effector CD8+
- Intermediate Effector CD8+
- Terminal Effector CD8+
- CD45RA Terminal Effector CD8+



Gamma Delta T Cells



CD4-CD8-

