

CellCarta has deep expertise in developing flow cytometry panels for clinical use and provides the highest standard of quality with sites accredited by CAP and CLIA certifications. To help monitor immune cells efficiently in any therapeutic area, we developed off-the-shelf panels for both your whole blood samples and cryopreserved PBMC.

Panels for Whole Blood Samples			
TBNK Enumeration 1	TBNK Enumeration 2	Immune Cells Profile 1	Immune Cells Profile 2
• T cells • B cells • NK cells • Providing absolute cell count • Tracking lymphodepletion	• T cells • B cells • NK cells • Monocytes • Providing absolute cell count • Tracking lymphodepletion	• T cells • B cells • Monocytes/subsets • NK cell/subsets • NKT • Cell proliferation • Cell activation • Cell cytotoxicity • CD38 monitoring	• T cells • B cells (plasma cells, abnormal plasma cells, non-plasma cells) • Monocytes/subsets • NK cell/subsets • NKT • CD38 monitoring • BCMA monitoring
CD45	CD45	CD45	CD45
CD19	CD19	CD3	CD3
CD3	CD3	CD4	CD4
CD4	CD4	CD8	CD8
CD8	CD8	CD19	CD19
CD16/CD56	CD16	CD16	CD16
	CD56	CD56	CD56
	CD14	CD14	CD14
		NKG2D	BCMA
		CD69	CD123
		Ki-67	CD38
		Granzyme B	CD138
		HLA-DR	PD-L1
		CD38	
		CD57	
		IFN γ	
		Perforin	

Panels for Whole Blood Samples

T cells Profile 1	T cells Profile 2	T cells Profile 3	T cells Profile 4	T cells Profile 5
- Memory T cells - Th1 - Th2 - Th17 - Th polarization	- Memory T cells - T follicular helper cells - Th1 - Th2 - Th9 - Th17 - Th polarization - NKT - NK cells/subsets - PD-1	- Memory T cell - Treg - T cell activation - T cell exhaustion - T cell proliferation - T cell cytotoxicity - Immune checkpoints	- T cell memory - T cell proliferation - Treg - Immune Checkpoints	- T cell activation - T cell exhaustion - T cell proliferation - Treg - Immune Checkpoints
CD45	CD45	CD14/16/19	CD45	CD45
CD3	CD3	CD3	CD3	CD3
CD4	CD4	CD4	CD4	CD4
CD8	CD8	CD8	CD8	CD8
CD45RA	CD45RA	CD45RA	CD45RA	CD25
CD197 (CCR7)	CD197 (CCR7)	CD197 (CCR7)	CD197 (CCR7)	FoxP3
CCR10	CD25	CD25	CD25	CD127
CD194 (CCR4)	CD127	CD127	FoxP3	CD38
CD196 (CCR6)	CD56	FoxP3	CD279 (PD-1)	CD69
CD183 (CXCR3)	CD16	PD-1	CD366 (TIM-3)	HLA-DR
	CD279 (PD-1)	TIM-3	CD134 (OX40)	CD279 (PD-1)
	CD183 (CXCR3)	4-1BB	Ki-67	CD366 (TIM-3)
	CD185 (CXCR5)	Ki-67		CD223 (LAG-3)
	CD194 (CCR4)	Granzyme B		Ki-67
	CD196 (CCR6)	LAG3		
		HLA-DR		
		CD39		

Panels for Whole Blood Samples

B cells Profile 1	B cells Profile 2	NK cells Profile 1	Monocyte Profile 1	Dendritic cells Profile 1
- B cell memory - B cell class switching - B cell activation - Plasma cells/plasmablasts	- B cell memory - B cell class switching - B cell activation - Plasma cells/plasmablasts - Regulatory B cells	- NK cell/subsets - CD8 T cells - NKT cells - Monocytes/subsets - Cell activation - Cell cytotoxicity - Cell Proliferation	- Monocytes/subsets - Dendritic cells (mDC1, mDC2, pDC) - DC maturation	- Dendritic cells (mDC1, mDC2, pDC) - DC maturation - DC activation
CD45	CD45	CD45	CD45	CD45
CD19	CD19	CD19	CD3	CD19
CD20	CD20	CD3	CD56	CD3
CD27	CD27	CD8	CD19	CD20
IgD	IgD	CD14	CD20	CD14
CD21	IgM	CD16	CD14	CD56
CD24	CD24	CD56	CD16	HLA-DR
CD38	CD38	CD107a	CD11c	CD11c
CD138	CD138	CD69	CD123	CD123
CD40	CD5	Perforin	CD141	CD1c
CD86	CD1d	Granzyme B	CD1c	CD303
CD95	CD40	Ki-67	CD303 (BDCA-2)	CD304
	CD80		CD304 (BDCA-4)	CD141
	CD86		HLA-DR	CD80
			CX3CR1	CD83
			CD192 (CCR2)	CD40
			CD83	CD145 (CD40L)

NK: natural killer cells; **Th:** helper T cells; **NKT:** natural killer T cells; **Treg:** regulatory T cell; **DC:** dendritic cells; **mDC:** myeloid dendritic cells; **pDC:** plasmacytoid dendritic cells.

Off-the-Shelf Flow Cytometry Panels



Panels for PBMC Samples

T cell panel 1	T cell panel 2	ICS – Panel 1	ICS – Panel 2	Lymphocyte/Myeloid Panel	B cell Profile 1
- T cell memory - T cell proliferation - T cell senescence - Immune checkpoints - PD-1	- T cell memory - T cell activation - Th1 - Th2 - Th9 - Th17 - Th22 - Treg - PD-1	- CD4 and CD8 T cells - Th1/Th2 cytokines - IL-6 - Cytotoxicity - B cell help - Requires stimulation	- T follicular helper cells - T cell memory - T cell activation - Th1/Th2 cytokines - Cytotoxicity - Requires stimulation	- T cells - NKT cells - gd T cells - NK cells/subsets - Monocytes/subsets - mMDSC/eMDSC - Dendritic cells (pDC, mDC1, mDC2)	- B cell memory - B cell class switching - B cell activation - Plasma cells/plasmablasts
Live/Dead	Live/Dead	Live/Dead	Live/Dead	Live/Dead	Live/Dead
CD3	CD19	CD3	CD3	CD3	CD45
CD4	CD3	CD4	CD4	CD56	CD19
CD8	CD4	CD8	CD8	CD14	CD20
CD45RA	CD8	CD56	CD56	CD16	CD27
CD197 (CCR7)	CD45RA	CD19	CD19	CD11b	IgD
CD127	CD197 (CCR7)	CD14	CD14	CD33	CD24
CD279 (PD-1)	FoxP3	IFN γ	CD45RA	CD15	CD38
CD278 (ICOS)	CD25	TNF α	CD197 (CCR7)	HLA-DR	CD138
CD366 (TIM-3)	CD69	IL-2	CD69	CD11c	CD21
CD57	HLA-DR	IL-4	IFN γ	CD123	CD40
CD95	CD279 (PD-1)	IL-5	TNF α	CD141	CD86
Ki67	CCR10	IL-6	IL-2	CD1c	CD95
KLRG1	CD183 (CXCR3)	IL-13	IL-4	CD370	
T-bet	CD194 (CCR4)	CD154 (CD40L)	IL-13	CD64	
TCF1	CD196 (CCR6)	Granzyme B	IL-21	CD86	
		Perforin	CD154 (CD40L)	TCR $\gamma\delta$	
			Perforin		
			CD185 (CXCR5)		
			CD107a		

PBMC: peripheral blood mononuclear cells; **ICS:** intracellular cytokine staining; **mDC:** myeloid dendritic cells; **pDC:** plasmacytoid dendritic cells; **mMDSC:** monocytic myeloid derived suppressor cells; **eMDSC:** early myeloid derived suppressor cells.

Reach out to our team for details on your panel(s) of interest.

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ABOUT CELLCARTA

Leading provider of specialized precision medicine laboratory services to the biopharmaceutical industry. Leveraging its integrated analytical platforms in immunology, histopathology, proteomics and genomics, as well as related specimen collection and logistics services, CellCarta supports the entire drug development cycle, from discovery to late-stage clinical trials. The company operates globally with 11 facilities located in Canada, USA, Belgium, Australia and China.

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