

CASCA Human Immune Profiling Panel

	TAG	Marker	Clone	Cell Subsets Detected
	89 Y	CD45	HI30	Hematopoietic or Barcode
	102 Pd	Barcode		
	104 Pd	Barcode		
	105 Pd	Barcode		
	106 Pd/Cd	Barcode or Marker		
	108 Pd	Barcode		
	110 Pd/Cd	Barcode or Marker		
	111 Cd			
	112 Cd			
	113 In/Cd			
	114 Cd	CD38	HB7	Memory B, Activated T cells
	115 In	CD11c	Bu15	DC, Monocytes, NK cells
	116 Cd			
	127 I			
	139 La			
EQ	140 Ce			
	141 Pr	HLA-DR	L243	B cells, DC, monocytes
	142 Nd	IgD	IA6-2	Naive B cells
	143 Nd	Perforin	B-D48	Cytotoxic T cells, NK cells
	144 Nd	CD27	L128	Memory B, Naive T cells
	145 Nd			
	146 Nd	CD8a	RPA-T8	Cytotoxic T cells
	147 Sm	CD35	E11	Monocytes, cDC3
	148 Nd	CD4	SK3	TH cells
	149 Sm			
	150 Nd	CD24	ML5	Transitional B cells
EQ	151 Eu	CD123	6H6	pDC, Basophils
	152 Sm	CD7	CD7-6B7	T/NK/ILC
EQ	153 Eu	CD45RA	HI100	Naive T, NK, others
	154 Sm			
	155 Gd	CD161	HP-3G10	NK, MAIT cells, other T
	156 Gd	FoxP3	150D	CD4 Treg cells
	158 Gd			
	159 Tb	IgM	MHM-88	B cells
	160 Gd	CD14	M5E2	Monocytes
	161 Dy	CD25	2A3	Tregs, activated T cells, ILC2
	162 Dy	CD1c	L161	cDC2
	163 Dy	CD127	eBioRDR5	T cells, ILC
	164 Dy	CD279	EH12.1	Exhausted T cells
EQ	165 Ho	CD16	3G8	non-classical monocytes
	166 Er	CXCR5	RF8B2	B cells, TFH cells
	167 Er	TCR-VA2	6B11	MAIT cells
	168 Er	CD19	HIB19	B cells
	169 Tm	CD66b	G10F5	Neutrophils
	170 Er	CD3	UCHT1	All T cells
	171 Yb	CD141	1A4	cDC1
	172 Yb	TCRgd	5A6.E9	TCRgd T cells
	173 Yb	CD56	REA196	NK cells
	174 Yb	CD45RO	UCHL1	Memory T cells
EQ	175 Lu	CD163	GHI/61	Monocytes, cDC3
	176 Yb	CCR7	G043H7	Central memory T cells
DNA1	191 Ir	Cells	Iridium	
DNA2	193 Ir	Cells	Iridium	
CisPt	194 Pt	Viability or Surface BC		
CisPt	195 Pt	Viability or Surface BC		
	196 Pt	Viability or Surface BC		

Cell Types Detected By Panel	Markers
Hematopoietic cells	CD45
Monocyte/Macrophages	HLA-DR, CD14, CD11c, CD163, CD35
Neutrophils	CD45, CD66b, CD16
Plasma cells	CD19, CD38, CD27, CD138, IgM, IgD
B cells	CD19, CD20, HLA-DR, IgM, CXCR5
Memory/Transitional B cells	CD19, CD20, IgD, IgM, CD27, CD38, CD24
Naive B cells	CD19, CD20, IgD, IgM
NK cells	CD16, CD11c, CD7, CD45RA, CD56, Perforin
TCRab T cells	CD3, TCRgd
Activated T cells	CD38, CD25, HLA-DR
Naive vs Memory T cells	CD45RA, CD45RO, CD27, CCR7
Central memory T cells	CD45RA, CD45RO, CCR7, CD127
TCRgd T cells	CD3, TCRgd, CD8, CD45RA, CD27
Exhausted T cells	CD3, TCRgd, CD8a, PD1
Cytotoxic T cells	CD3, CD8a, Perforin
Tregs	CD3, CD4, CD25, CD127, FOXP3
TH cells	CD3, CD4
TFH cells	CD3, CD4, PD1, CXCR5
MAIT cells	CD3, CD4, CD8a, Va7.2, CD161
ILC	CD3, CD7, CD127, CD25
pDC	CD123, HLA-DR, CD38
DC	HLA-DR, CD14, CD11c, CD16
cDC1	HLA-DR, CD14, CD11c, CD141
cDC2	HLA-DR, CD14, CD11c, CD1c
cDC3	HLA-DR, CD14, CD11c, CD163, CD35

Possible Add-ons (Intracellular)
