



Protein Assay List

SINGLE CELL SPATIAL PROTEOMICS KIT

IMMUNOLOGY PANEL I, Human

Product number: PXGIMM001

Summary: This list of 76 protein assays and 4 controls were chosen to deeply phenotype immune cells.

Number	Protein name	Gene name	UniProt #	CD antigen
1	Beta-2-microglobulin	β 2M	P61769	β 2M
2	Antigen-presenting glycoprotein CD1d	CD1D	P15813	CD1d
3	T-cell surface antigen CD2	CD2	P06729	CD2
4	T-cell surface glycoprotein CD3 epsilon chain	CD3E	P07766	CD3E
5	T-cell surface glycoprotein CD4	CD4	P01730	CD4
6	T-cell surface glycoprotein CD5	CD5	P06127	CD5
7	T-cell antigen CD7	CD7	P09564	CD7
8	T-cell surface glycoprotein CD8 a/b chains	CD8A/CD8B	P01732/P10966	CD8
9	CD9 antigen	CD9	P21926	CD9
10	Integrin α -L	ITGAL	P20701	CD11a
11	Integrin α -M	ITGAM	P11215	CD11b (ITGAM)
12	Integrin α -X	ITGAX	P20702	CD11c
13	Monocyte differentiation antigen CD14	CD14	P08571	CD14
14	Low affinity immunoglobulin gamma Fc region receptor III-A and -B	FCGR3A/FCGR3B	P08637/ O75015	CD16
15	Integrin beta 2	ITGB2	P05107	CD18
16	B-lymphocyte antigen CD19	CD19	P15391	CD19
17	B-lymphocyte antigen CD20	MS4A1	P11836	CD20
18	B-cell receptor CD22	CD22	P20273	CD22
19	Interleukin-2 receptor subunit alpha	IL2RA	P01589	CD25
20	Dipeptidyl peptidase 4	DPP4	P27487	CD26
21	CD27 antigen	CD27	P26842	CD27
22	Integrin beta-1	ITGB1	P05556	CD29
23	Low affinity immunoglobulin gamma Fc region receptor II-b	FCGR2B	P31994	CD32



Number	Protein name	Gene name	UniProt #	CD antigen
24	Myeloid cell surface antigen CD33	CD33	P20138	CD33
25	Complement receptor type 1	CR1	P17927	CD35
26	Platelet glycoprotein 4	CD36	P16671	CD36
27	Leukocyte antigen CD37	CD37	P11049	CD37
28	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1	CD38	P28907	CD38
29	Tumor necrosis factor receptor superfamily member 5	CD40	P25942	CD40
30	Integrin α -IIb	ITGA2B	P08514	CD41
31	Leukosialin	SPN	P16150	CD43
32	CD44 antigen	CD44	P16070	CD44
33	Receptor-type tyrosine-protein phosphatase C. All 6 isoforms (ABC, AB, BC, B and O)	PTPRC	P08575	CD45
34	Receptor-type tyrosine-protein phosphatase C. Isoform (ABC, AB and A)	CD45RA	P08575	CD45RA
35	Receptor-type tyrosine-protein phosphatase C. Isoform (ABC, AB, BC, and B)	CD45RB	P08575	CD45RB
36	Leukocyte surface antigen CD47	CD47	Q08722	CD47
37	CD48 antigen	CD48	P09326	CD48
38	Integrin α -4	ITGA4	P13612	CD49d
39	Intercellular adhesion molecule 3	ICAM3	P32942	CD50
40	CAMPATH-1 antigen	CD52	P31358	CD52
41	Leukocyte surface antigen CD53	CD53	P19397	CD53
42	Intercellular adhesion molecule 1	ICAM1	P05362	CD54
43	Complement decay-accelerating factor	CD55/DAF	P08174	CD55
44	CD59 glycoprotein	CD59	P13987	CD59
45	P-selectin	SELP	P16109	CD62P
46	High affinity immunoglobulin gamma Fc receptor I	FCGR1A	P12314	CD64
47	Early activation antigen CD69	CD69	Q07108	CD69
48	Transferrin receptor protein 1	TFRC	P02786	CD71
49	B-cell differentiation antigen CD72	CD72	P21854	CD72
50	CD82 antigen	CD82	P27701	CD82
51	SLAM family member 5	CD84	Q9UIB8	CD84
52	T-lymphocyte activation antigen CD86	CD86	P42081	CD86
53	Intercellular adhesion molecule 2	ICAM2	P13598	CD102
54	Interleukin-7 receptor subunit alpha	IL7R	P16871	CD127 (IL-7R α)
55	Tumor necrosis factor receptor superfamily member 9	TNFRSF9 (CD137)	Q07011	CD137

Table continues on the next page.





Number	Protein name	Gene name	UniProt #	CD antigen
56	Signaling lymphocytic activation molecule	SLAMF1	Q13291	CD150
57	Cytotoxic T-lymphocyte protein 4	CTLA4	P16410	CD152
58	CD40 ligand	CD40LG	P29965	CD154
59	Killer cell immunoglobulin-like receptor 2D	KIR2D*)	*)	CD158 (p50.3)
60	Killer cell lectin-like receptor subfamily B member 1	KLRB1	Q12918	CD161
61	P-selectin glycoprotein ligand 1	SELPLG	Q14242	CD162
62	Scavenger receptor cysteine-rich type 1 protein M130	CD163	Q86VB7	CD163
63	C-C chemokine receptor type 7	CCR7	P32248	CD197
64	OX-2 membrane glycoprotein	CD200	P41217	CD200
65	T-lymphocyte surface antigen Ly-9	LY9	Q9HBG7	CD229
66	Natural killer cell receptor 2B4	CD244	Q9BZW8	CD244
67	Tumor necrosis factor receptor superfamily member 13C (BAFFR)	TNFRSF13C	Q96RJ3	CD268
68	Programmed cell death 1 ligand 1	CD274	Q9NZQ7	CD274 (PDL1)
69	Inducible T-cell co-stimulator	ICOS	Q9Y6W8	CD278
70	Programmed cell death protein 1	PDCD1	Q15116	CD279
71	NKG2-D type II integral membrane protein	KLRK1	P26718	CD314
72	Natural cytotoxicity triggering receptor 3	NCR3	O14931	CD337
73	Sialic acid-binding Ig-like lectin 7 (SIGLEC-7)	SIGLEC7	Q9Y286	CD328
74	T-cell antigen receptor b (TCRB)		**)	
75	HLA class I histocompatibility antigen	HLA-ABC	P04439/P01889/ P10321	HLA-ABC
76	HLA class II histocompatibility antigen, DR	HLA-DR	P01903/P01911	HLA-DR

*) This assay recognizes KIR2D members of the killer cell immunoglobulin (Ig)-like receptor (KIR) family, CD158a and CD158b (KIR2DL1, KIR2DS1 and KIR2DS2 respectively) and also p50.3 (KIR2DS4).

***) This assay recognizes the TCRB part of the T-cell receptor complex expressed by HPB-ALL cell line [carrying V (beta 5.3)] and a small subset of peripheral blood T cells.





CONTROL ASSAYS

Number	Protein name	Gene name	UniProt #	CD antigen
Intracellular controls				
1	β -actin	ACTB	P60709	-
Isotype controls				
1	Mouse IgG1, kappa Isotype Control (1 of 3)			
2	Mouse IgG2a, kappa Isotype Control (2 of 3)			
3	Mouse IgG2b, kappa Isotype Control (3 of 3)			

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