



# PIXELGEN

## TECHNOLOGIES

### Protein Assay List


# SINGLE CELL SPATIAL PROTEOMICS KIT

## IMMUNOLOGY PANEL 2, Human v2

Product number: PXGIMM002

Summary: This list of 80 protein assays and 4 controls were chosen to deeply phenotype immune cells.

Number	Protein name	Gene name	UniProt #	CD antigen
1	Beta-2-microglobulin	$\beta$ 2M	P61769	$\beta$ 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 $\alpha$ -L	ITGAL	P20701	CD11a
11	Integrin $\alpha$ -M (ITGAM)	ITGAM	P11215	CD11b
12	Integrin $\alpha$ -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	Signal transducer CD24	CD24	P25063	CD24
20	Interleukin-2 receptor subunit alpha	IL2RA	P01589	CD25
21	Dipeptidyl peptidase 4	DPP4	P27487	CD26
22	CD27 antigen	CD27	P26842	CD27
23	Integrin beta-1	ITGB1	P05556	CD29

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Number	Protein name	Gene name	UniProt #	CD antigen
24	Low affinity immunoglobulin gamma Fc region receptor II-b	FCGR2B	P31994	CD32
25	Myeloid cell surface antigen CD33 (SIGLEC-3)	CD33	P20138	CD33
26	Complement receptor type 1	CR1	P17927	CD35
27	Platelet glycoprotein 4	CD36	P16671	CD36
28	Leukocyte antigen CD37	CD37	P11049	CD37
29	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1	CD38	P28907	CD38
30	Ectonucleoside triphosphate diphosphohydrolase 1	ENTPD1	P49961	CD39
31	Tumor necrosis factor receptor superfamily member 5	CD40	P25942	CD40
32	Integrin $\alpha$ -IIb	ITGA2B	P08514	CD41
33	Leukosialin	SPN	P16150	CD43
34	CD44 antigen	CD44	P16070	CD44
35	Receptor-type tyrosine-protein phosphatase C. All 6 isoforms (ABC, AB, BC, B and O)	PTPRC	P08575	CD45
36	Receptor-type tyrosine-protein phosphatase C. Isoform (ABC, AB, and A)	CD45RA	P08575	CD45RA
37	Receptor-type tyrosine-protein phosphatase C. Isoform (ABC, AB, BC, and B)	CD45RB	P08575	CD45RB
38	Leukocyte surface antigen CD47	CD47	Q08722	CD47
39	CD48 antigen	CD48	P09326	CD48
40	Integrin $\alpha$ -4	ITGA4	P13612	CD49d
41	Intercellular adhesion molecule 3	ICAM3	P32942	CD50
42	CAMPATH-1 antigen	CD52	P31358	CD52
43	Leukocyte surface antigen CD53	CD53	P19397	CD53
44	Intercellular adhesion molecule 1	ICAM1	P05362	CD54
45	Complement decay-accelerating factor (DAF)	CD55	P08174	CD55
46	Lymphocyte function-associated antigen 3 (LFA3)	CD58	P19256	CD58
47	CD59 glycoprotein	CD59	P13987	CD59
48	P-selectin	SELP	P16109	CD62P
49	High affinity immunoglobulin gamma Fc receptor I	FCGR1A	P12314	CD64
50	Early activation antigen CD69	CD69	Q07108	CD69
51	Transferrin receptor protein 1	TFRC	P02786	CD71
52	B-cell differentiation antigen CD72	CD72	P21854	CD72

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Number	Protein name	Gene name	UniProt #	CD antigen
53	CD82 antigen	CD82	P27701	CD82
54	SLAM family member 5	CD84	Q9UIB8	CD84
55	T-lymphocyte activation antigen CD86	CD86	P42081	CD86
56	Natural killer cells antigen CD94	KLRD1	Q13241	CD94
57	Intercellular adhesion molecule 2	ICAM2	P13598	CD102
58	Interleukin-3 receptor subunit alpha	IL3RA	P26951	CD123
59	Signaling lymphocytic activation molecule	SLAMF1	Q13291	CD150
60	Cytotoxic T-lymphocyte protein 4	CTLA4	P16410	CD152
61	CD40 ligand	CD40LG	P29965	CD154
62	Killer cell immunoglobulin-like receptor 2D (p50.3)	KIR2D*	*	CD158
63	Killer cell lectin-like receptor subfamily B member 1	KLRB1	Q12918	CD161
64	P-selectin glycoprotein ligand 1	SELPLG	Q14242	CD162
65	CD180 antigen	CD180	Q99467	CD180
66	C-C chemokine receptor type 1	CCR1	P32246	CD191
67	C-C chemokine receptor type 2	CCR2	P41597	CD192
68	OX-2 membrane glycoprotein	CD200	P41217	CD200
69	T-lymphocyte surface antigen Ly-9	LY9	Q9HBG7	CD229
70	Natural killer cell receptor 2B4	CD244	Q9BZW8	CD244
71	Tumor necrosis factor receptor superfamily member 13C (BAFFR)	TNFRSF13C	Q96RJ3	CD268
72	Programmed cell death 1 ligand 1 (PDL1)	CD274	Q9NZQ7	CD274
73	Inducible T-cell co-stimulator	ICOS	Q9Y6W8	CD278
74	Programmed cell death protein 1 (PD-1)	PDCD1	Q15116	CD279
75	Sialic acid-binding Ig-like lectin 7 (SIGLEC-7)	SIGLEC7	Q9Y286	CD328
76	Natural cytotoxicity triggering receptor 1 (NKp46)	NKp46	O76036	CD335
77	Natural cytotoxicity triggering receptor 3 (NKp30)	NCR3	O14931	CD337
78	T-cell antigen receptor b (TCRVb5)	TCRVb5	**	
79	HLA class I histocompatibility antigen	HLA-ABC	P04439/P01889/ P10321	HLA-ABC
80	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.

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## CONTROL ASSAYS

Number	Protein name	Gene name	UniProt #	CD antigen
Intracellular controls				
1	$\beta$ -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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