

Immuno-Oncology panel 3 (pending; some attrition expected, depending on generating successful antibodies)

Gene Symbol	Target protein name	UniProt ID (& link)	Modification*
ADA	adenosine deaminase	P00813	
B2M	beta-2-microglobulin	P61769	
BAD	BCL2-associated agonist of cell death	Q92934	
C10orf54 / VISTA	chromosome 10 open reading frame 54	Q9H7M9	
CADM1	cell adhesion molecule 1	Q98Y67	
CASP3	caspase 3, apoptosis-related cysteine peptidase	P42574	pS26
CD27	CD27 antigen	P26842	
CD276	CD276 molecule	Q5ZPR3	
CD44	CD44 molecule (Indian blood group)	P16070	
CD44	CD44 molecule (Indian blood group)	P16070	
CD44	CD44 molecule (Indian blood group)	P16070	
CD44	CD44 molecule (Indian blood group)	P16070	
CD44	CD44 molecule (Indian blood group)	P16070	
CD86	CD86 molecule	Q6GTS4	
CD8A	T-cell surface glycoprotein CD8 alpha chain	P01732	
CDKN1A	cyclin-dependent kinase inhibitor 1A (p21, Cip1)	P38936	
CRP	C-reactive protein, pentraxin-related	P02741	
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CSF1	colony stimulating factor 1 (macrophage)	P09603	
CSF1	colony stimulating factor 1 (macrophage)	P09603	
CSF1R	colony stimulating factor 1 receptor	P07333	
CTLA4	cytotoxic T-lymphocyte-associated protein 4	P16410	
CXCL10	C-X-C motif chemokine ligand 10	P02778	
CXCL12	chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1)	P48061	
CXCL9	C-X-C motif chemokine ligand 9	Q07325	
EIF2A	eukaryotic translation initiation factor 2A, 65kDa	Q98Y44	pS506 and pT518
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EIF2A	eukaryotic translation initiation factor 2A, 65kDa	Q98Y44	
EIF2A	eukaryotic translation initiation factor 2A, 65kDa	Q98Y44	
FAS	Fas (TNF receptor superfamily, member 6)	Q5T9P1	
GZMA	granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3)	P12544	
HLA-A	major histocompatibility complex, class I, A	P30443	
HLA-A	major histocompatibility complex, class I, A	P30443	
HLA-B	major histocompatibility complex, class I, B	Q9TP95	
HLA-C	major histocompatibility complex, class I, C	Q95603	
HLA-C	major histocompatibility complex, class I, C	Q95603	
HLA-C	major histocompatibility complex, class I, C	Q95603	
HLA-DPB1	major histocompatibility complex, class II, DP beta 1	P04440	
HLA-DPB1	major histocompatibility complex, class II, DP beta 1	P04440	
HLA-DPB1	major histocompatibility complex, class II, DP beta 1	P04440	
HLA-DPB1	major histocompatibility complex, class II, DP beta 1	P04440	
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HLA-DPB1	major histocompatibility complex, class II, DP beta 1	P04440	
HLA-DPB1	major histocompatibility complex, class II, DP beta 1	P04440	
HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1	P01909	
HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1	P01909	
HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1	P01909	
HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1	P01909	
HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1	P01909	
HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1	P01909	
HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1	P01909	
HLA-DQB1	major histocompatibility complex, class II, DQ beta 1	P01920	
HLA-DQB1	major histocompatibility complex, class II, DQ beta 1	P01920	
HLA-DQB1	major histocompatibility complex, class II, DQ beta 1	P01920	
HLA-DQB1	major histocompatibility complex, class II, DQ beta 1	P01920	
HLA-DQB1	major histocompatibility complex, class II, DQ beta 1	P01920	
HLA-F	major histocompatibility complex, class I, F	P30511	
HMGB1	high mobility group box 1	P09429	pS35/pS39
IFNGR1	interferon gamma receptor 1	P15260	
IL1RN	interleukin 1 receptor antagonist	P18510	
ITGAM	integrin, alpha M (complement component 3 receptor 3 subunit)	P11215	

*blanks mean the assay detects the non-modified peptide sequence

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JAK1	Janus kinase 1	P23458	
JAK2	Janus kinase 2	Q60674	
LAG3	lymphocyte-activation gene 3	P18627	
LIG1	ligase I, DNA, ATP-dependent	P18858	
MKI67	Proliferation marker protein Ki-67	P46013	
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MS4A1	membrane-spanning 4-domains, subfamily A, member 1	P11836	
MSH2	mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)	P43246	
MSH3	DNA mismatch repair protein Msh3	P20585	
MSLN	Mesothelin	Q13421	
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MUTYH	mutY homolog (E. coli)	Q9UIF7	
NCAM1	neural cell adhesion molecule 1	P13591	
PARP1	poly (ADP-ribose) polymerase family, member 1	P09874	pS177
PARP1	poly (ADP-ribose) polymerase family, member 1	P09874	
PARP1	poly (ADP-ribose) polymerase family, member 1	P09874	pS41
PAXIP1	PAX interacting (with transcription-activation domain) protein 1	Q62W49	
PCNA	Proliferating cell nuclear antigen	P12004	
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PDCD1	programmed cell death 1	Q15116	
PMS2	PMS2 postmeiotic segregation increased 2 (S. cerevisiae)	P54278	
POLE	polymerase (DNA directed), epsilon	Q07864	
PRF1	perforin 1 (pore forming protein)	P14222	
PRKDC	protein kinase, DNA-activated, catalytic polypeptide	P78527	pT2609
PRKDC	protein kinase, DNA-activated, catalytic polypeptide	P78527	
PTPN2	protein tyrosine phosphatase, non-receptor type 2	P17706	
SERPINA6	Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 6	P08185	
SIGLEC1	sialic acid binding Ig-like lectin 1, sialoadhesin	Q9BZ22	
SIGLEC9	sialic acid binding Ig-like lectin 9	Q9Y336	
SIRPA	signal-regulatory protein alpha	P78324	
SLAMF1	signaling lymphocytic activation molecule family member 1	Q13291	
SLAMF7	SLAM family member 7	Q9NQ25	
SLAMF8	SLAM family member 8	Q9P0V8	
STAT1	signal transducer and activator of transcription 1, 91kDa	P42224	pY701
STAT1	signal transducer and activator of transcription 1, 91kDa	P42224	pS727
STAT2	Signal transducer and activator of transcription 2	P52630	
STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)	P40763	pS701/pY705
STAT5A	signal transducer and activator of transcription 5A	P42229	pS780/pS788
STAT5B	signal transducer and activator of transcription 5B	P51692	pS193
TGFB1	transforming growth factor, beta 1	P01137	
TMEM173	transmembrane protein 173	Q86WV6	pS358/pS366