

Recombinant Human KIR3DL2 Protein (22-340aa), C-hlgG-His tagged

Cat. No. KIR3DL2-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KIR3DL2 (22-340aa), fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	22-340aa
Description	Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to

 Tel: 1-631-559-9269 1-516-512-3133

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play an important role in regulation of the immune response. This gene is one of the "framework" loci that is present on all haplotypes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

Form	Liquid
Molecular Mass	62.2 kDa (561aa)
AA Sequence	< ADP> LMGGQDKPFLSARPSTVPRGGHVALQCHYRRGFNNFMYKEDRSHVPIF HGRIFQESFIMGPVTPAHAGTYRCRGSRPHSALTGWSAPSNPLVIMVTGNHRKPSLL AHPGPLLKSGETVILQCWSDVMFEHFFLHREGISEDPSRLVGQIHGVSKANFSIGP LMPVLAGTYRCYGSVPHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVQAGENV LSCSSWSSYDIYHLSREGEAHERRLRAVPKVNRTFQADFPLGPATHGGTYRCFGSF RALPCVWSNSSDPLLVSVTGNPSSSWPSPTPESSKSGICRHLH< VEPKSCDKTHTC PPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGV EVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKA KGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTP PVLDSGDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGKHHH HHH>
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	> 85% by SDS-PAGE
Applications	SDS-PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and

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store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/mL (determined by Bradford assay)

Storage Buffer Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name KIR3DL2 killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2 [Homo sapiens (human)]

Official Symbol KIR3DL2

Synonyms KIR3DL2; killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2; killer cell immunoglobulin-like receptor 3DL2; CD158K; cl 5; nkat4; nkat4a; nkat4b; KIR antigen 3DL2; killer Ig receptor; p70 NK receptor CL-5; MHC class I NK cell receptor; CD158 antigen-like family member K; p70 killer cell inhibitory receptor; natural killer-associated transcript 4; natural killer cell inhibitory receptor; p70 natural killer cell receptor clone CL-5; killer cell immunoglobulin-like receptor KIR3DL2; p140; NKAT4; NKAT-4; NKAT4B; MGC125321;

Gene ID 3812

mRNA Refseq NM_006737

Protein Refseq NP_006728

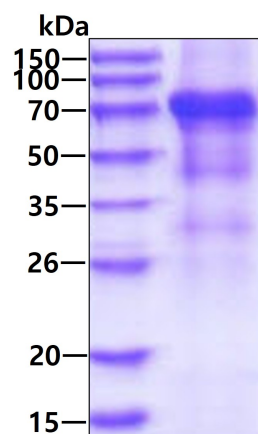
MIM 604947

UniProt ID P43630

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SDS-PAGE

3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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