

Recombinant Human KIR2DL3 Protein, C-His-tagged

Cat. No. KIR2DL3-082H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KIR2DL3 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Killer cell immunoglobulin-like receptors (KIRs) are type 1 transmembrane glycoproteins expressed by natural killer cells and subsets of CD4, CD8, and $\gamma\delta$ T cells. Analogous to the diversity of their human leucocyte antigen class I (HLA Class I) ligands, the KIR genes are polymorphic and the content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes. The KIR proteins are characterized by the number of extracellular immunoglobulin-superfamily 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 an ITIM and instead transduce activating signals. KIR proteins play an important role in the regulation of the immune response. Combinations of KIR and HLA class I variants influence susceptibility to autoimmunity and infectious disease, as well as outcomes of haematopoietic stem cell transplantation.
Molecular Mass	~25 kDa
AA Sequence	HEGVHRKPSLLAHPGPLVKSEETVILQCWSDVRFQHLLHREGKFKDTLHLIGEHH

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GVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCSSRSSYDMYHLSREGEAHERRFSAGPKVNGTFQADFPLGPAT
HGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPSNSWPSPTEPSSETGNPRHLH

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

KIR2DL3 killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 3 [Homo sapiens (human)]

Official Symbol

KIR2DL3

Synonyms

KIR2DL3; killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 3; killer cell immunoglobulin-like receptor 2DL3; CD158B2; cl 6; nkat2; nkat2a; nkat2b; p58; NKAT-2; NK-receptor; p58 NK receptor CL-6; MHC class I NK cell receptor; killer inhibitory receptor cl 2-3; CD158 antigen-like family member B2; natural killer associated transcript 2; natural killer-associated transcript 2; p58.2 MHC class-I specific NK receptor; p58.2 MHC class-I-specific NK receptor; p58 natural killer cell receptor clone CL-6; natural killer cell inhibitory receptor KIR2DL3; NKAT; GL183; NKAT2; CD158b; NKAT2A; NKAT2B; KIR-K7b; KIR-K7c; KIRCL23; KIR-

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023GB; MGC129943;

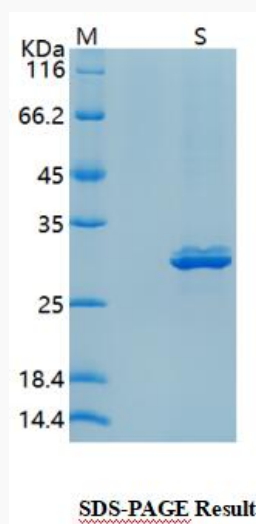
Gene ID 3804

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Protein Refseq NP_056952

MIM 604938

UniProt ID P43628

SDS-PAGE

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