

Recombinant Human KIR2DS4

Cat. No. KIR2DS4-28650TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1-202 of Human KIR2DS4, 22kDa.
Species	Human
Source	E.coli
ProteinLength	1-202 a.a.
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 play an important role in regulation of the immune response.

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Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20mM Tris HCl, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MEGVHRKPSF LALPGHLVKS EETVILQCWS DVMFEHFLH REGKFNNTLH LIGEHHDGVS KANFSIGPMM PVLAGTYRCY GSVPHSPYQL SAPSDPLDMV IIGLYEKPSL SAQPGPTVQA GENVTLS CSS RSSYDMYHLS REGEAHERRL PAVRSINGTF QADFPLGPAT HGGTYRCFGS FRDAPYEWSN SSDPLLVSVT GN

GENE INFORMATION

Gene Name	KIR2DS4 killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 4 [Homo sapiens]
Official Symbol	KIR2DS4
Synonyms	KIR2DS4; killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 4; killer cell immunoglobulin-like receptor 2DS4; CD158i; cl 39; KKA3; nkat8;
Gene ID	3809
mRNA Refseq	NM_012314
Protein Refseq	NP_036446
MIM	604955

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Uniprot ID	P43632
Chromosome Location	19q13.4
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Immune System, organism-specific biosystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell, organism-specific biosystem;
Function	receptor activity;

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