Recombinant Human KIR2DS2 Protein, MYC/DDK-tagged

Cat. No. KIR2DS2-553H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KIR2DS2 protein, fused to MYC/DDK tag at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
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. This gene represents a haplotype-specific family member that encodes a protein with a short cytoplasmic tail. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014].

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Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Molecular Mass	31.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	killer cell immunoglobulin like receptor, two Ig domains and short cytoplasmic tail 2[Homo sapiens]
Official Symbol	KIR2DS2
Synonyms	183ActI; CD158b; CD158J; cl-49; KIR-2DS2; NKAT-5; NKAT5
Gene ID	100132285
mRNA Refseq	NM_012312.2
Protein Refseq	NP_036444.1
MIM	604953
UniProt ID	P43631

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