

Datasheet for ABIN7535523
KIR2DL1 Protein (His tag,AVI tag)



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Overview

Quantity:	100 µg
Target:	KIR2DL1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This KIR2DL1 protein is labelled with His tag,AVI tag.

Product Details

Purpose:	Active Recombinant Human NKAT-1/KIR2DL1/CD158a Protein
Sequence:	HEGVHRKPSL LAHPGPLVKS EETVILQCWS DVMFEHFLLH REGMFNDTLR LIGEHHDGVS KANFSISRMT QDLAGTYRCY GSVTHSPYQV SAPSDPLDIV IIGLYEKPSL SAQPGPTVLA GENVTLS CSS RSSYDMYHLS REGEAHERRL PAGPKVNGTF QADFPLGPAT HGGTYRCFGS FHDSPYEWSK SSDPLLVSVT GNPSNSWPSP TEPSSKTGNP R
Specificity:	His22-Arg242
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human KIR2DL1 at 1µg/mL (100 µL/well) can bind KIR2DL1 Rabbit pAb with a linear range of 1-99 ng/mL.

Target Details

Target:	KIR2DL1
Alternative Name:	NKAT-1/KIR2DL1/CD158a (KIR2DL1 Products)
Background:	<p>Description: Killer cell immunoglobulin-like receptor 2DL1 or KIR2DL1 is an inhibitory Natural Killer cell immunoglobulin-like receptor with two extracellular immunoglobulin domains. KIR2DL1 is a member of the Killer cell immunoglobulin-like receptor family whose members are classified by the number of the extracellular immunoglobulin domains and the length of the cytoplasm domain. KIR2DL1 is a transmembrane glycoprotein expressed by natural killer cells and subsets of T cells. KIR2DL1 down-regulates the cytotoxicity of NK cells upon recognition of specific class I major histocompatibility complex (MHC) molecules on target cells. It has been reported that the KIR2DL1 is bound to its class I MHC ligand, HLA-Cw4. The KIR2DL1-HLA-Cw4 interface exhibits charge and shape complementarity. Specificity is mediated by a pocket in KIR2DL1 that hosts the Lys80 residue of HLA-Cw4. Many residues conserved in HLA-C and KIR2DL receptors make different interactions in KIR2DL1-HLA-Cw4 and a previously reported KIR2DL2-HLA-Cw3 complex. A dimeric aggregate of KIR-HLA-C complexes was observed in one KIR2DL1-HLA-Cw4 crystal.</p> <p>Name: KIR2DL1,CD158A,KIR-K64,KIR221,NKAT,NKAT-1,NKAT1,p58.1</p>
Gene ID:	3802
UniProt:	P43626

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.