Datasheet for ABIN7319359

KLRK1 Protein (His tag)

Go to Product page

Overview

Quantity:	50 µg
Target:	KLRK1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This KLRK1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human NKG2D/CD314 Protein (His Tag)(Active)
Sequence:	Phe78-Val216
Characteristics:	Recombinant Human NKG2-D type II Integral Membrane Protein is produced by our Mammalian expression system and the target gene encoding Phe78-Val216 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human NKG2D-His at 10µg/ml(100 µl/well) can bind Human MICA-Fc(Cat: PKSH032753). The ED50 of Human NKG2D-His is 19.8 ug/ml .

Target Details

Target:	KLRK1

Target Details

Alternative Name:	NKG2D/CD314 (KLRK1 Products)
Background:	Background: NKG2-D type II integral membrane protein (NKG2D) is a type II transmembrane glycoprotein which belongs to the CD94/NKG2 family. NKG2D is expressed on natural killer (NK) cells, CD8+ alpha-beta and gamma-delta T-cells. As an activating and costimulatory receptor, it involved in immunosurveillance upon binding to various cellular stress-inducible ligands displayed at the surface of autologous tumor cells and virus-infected cells. It provides both stimulatory and costimulatory innate immune responses on activated killer (NK) cells, leading to cytotoxic activity. It stimulates perforin-mediated elimination of ligand-expressing tumor cells. Signaling involves calcium influx, culminating in the expression of TNF-alpha. NKG2D participates in NK cell-mediated bone marrow graft rejection and survival of NK cells. It Binds to ligands belonging to various subfamilies of MHC class I-related glycoproteins including MICA, MICB, RAET1E, RAET1G, ULBP1, ULBP2, ULBP3 (ULBP2>ULBP1>ULBP3) and ULBP4. Synonym: CD314, KLRK1,CD314 antigen,Killer cell lectin-like receptor subfamily K member 1, killer cell lectin-like receptor subfamily K, member 1, KLR, NK cell receptor D, NKG2-D, NKG2-D type II integral membrane protein, NKG2-D-activating NK recepto
Molecular Weight:	16.9 kDa
UniProt:	P26718
Pathways:	Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.