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## Datasheet for ABIN7319518 KLRK1 Protein (Fc Tag)

### Overview

Quantity:	50 µg
Target:	KLRK1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLRK1 protein is labelled with Fc Tag.

### Product Details

Purpose:	Recombinant Human NKG2D/CD314 Protein (Fc Tag)
Sequence:	Phe78-Val216
Characteristics:	Recombinant Human NKG2D is produced by our Mammalian expression system and the target gene encoding Phe78-Val216 is expressed with a Fc 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.

### Target Details

Target:	KLRK1
Alternative Name:	NKG2D/CD314 ( <a href="#">KLRK1 Products</a> )
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

## Target Details

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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

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Molecular Weight: 42.4 kDa

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UniProt: [P26718](#)

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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

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Restrictions: For Research Use only

## Handling

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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.