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Datasheet for ABIN7275343
KLRK1 Protein (His-Avi Tag,Biotin)

3 Images

Overview

Quantity:	100 µg
Target:	KLRK1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLRK1 protein is labelled with His-Avi Tag,Biotin.

Product Details

Sequence:	Phe78-Val216
Purity:	> 95% as determined by Tris-Bis PAGE,> 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Biotinylated Human NKG2D, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-NKG2D Antibody, hFc Tag with the EC50 of 4.4ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	KLRK1
Alternative Name:	NKG2D (KLRK1 Products)
Background:	CD314, D12S2489E, KLR, NKG2-D, NKG2D,NKG2D is a type II transmembrane glycoprotein having an extracellular lectin-like domain. This domain lacks the recognizable calcium-binding

Target Details

sites found in true C-type lectins and binds protein rather than carbohydrate ligands. Human NKG2D is expressed on CD8 alpha beta T cells, gamma delta T cells, NK cells and NKT cells.

Molecular Weight: 19.0 kDa. Due to glycosylation, the protein migrates to 36-40 kDa based on Tris-Bis PAGE result.

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: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

Buffer: Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

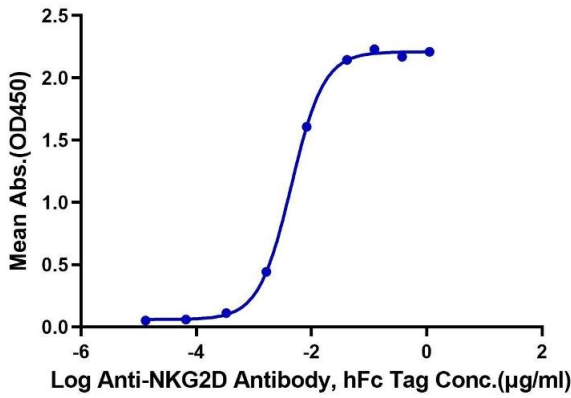
Storage: 4 °C, -80 °C

Storage Comment: Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Expiry Date: 12 months

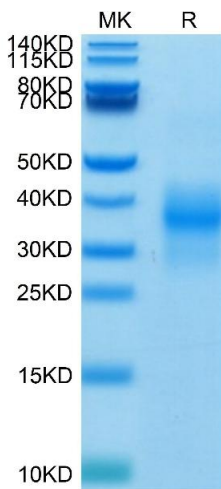
Biotinylated Human NKG2D, His Tag ELISA

0.1µg Biotinylated Human NKG2D, His Tag Per Well



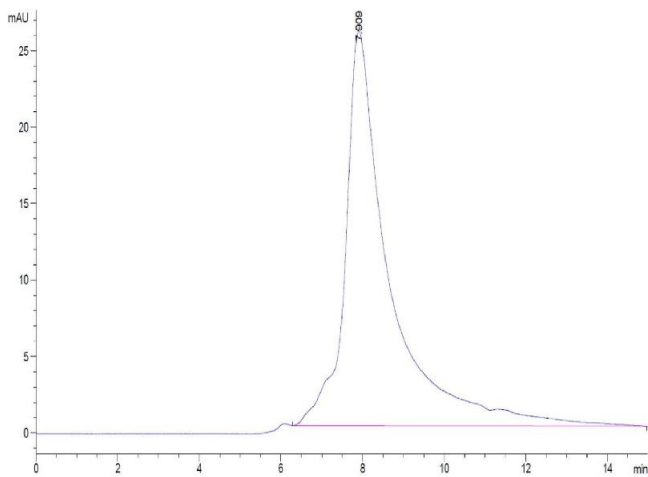
ELISA

Image 1. Immobilized Biotinylated Human NKG2D, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-NKG2D Antibody, hFc Tag with the EC50 of 4.4 ng/mL determined by ELISA.



SDS-PAGE

Image 2. Biotinylated Human NKG2D on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Biotinylated Human NKG2D is greater than 95 % as determined by SEC-HPLC.