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KLRK1 Protein (AA 73-216) (His tag)

3 Images



Go to Product page

Overview

Quantity:	100 μg
Target:	KLRK1
Protein Characteristics:	AA 73-216
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLRK1 protein is labelled with His tag.

Product Details

Purpose:	Cynomolgus NKG2D/CD314 Protein
Sequence:	lle73-Val216
Characteristics:	Recombinant Cynomolgus NKG2D/CD314 Protein is expressed from HEK293 with His tag at the N-Terminus.It contains Ile73-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 Cynomolgus NKG2D, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-NKG2D Antibody, hFc Tag with the EC50 of 6.6ng/ml determined by ELISA. See testing image for detail.

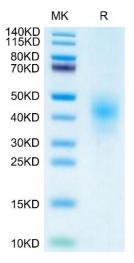
Target Details

Restrictions:

Target:	KLRK1
Alternative Name:	NKG2D (KLRK1 Products)
Background:	NKG2D is a type II transmembrane glycoprotein having an extracellular lectin-like domain. This domain lacks the recognizable calcium-binding 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 δ T cells, NK cells and NKT cells.
Molecular Weight:	17.48 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
UniProt:	P61252
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	

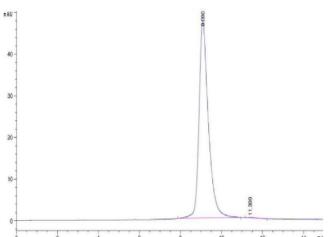
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

For Research Use only



SDS-PAGE

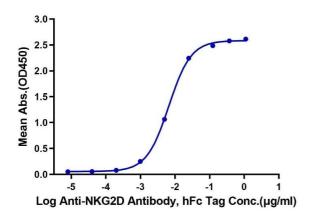
Image 1. Cynomolgus NKG2D on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Cynomolgus NKG2D is greater than 95 % as determined by SEC-HPLC.

Cynomolgus NKG2D, His Tag ELISA 0.05µg Cynomolgus NKG2D, His Tag Per Well



ELISA

Image 3. Immobilized Cynomolgus NKG2D, His Tag at 0.5 μ g/mL (100 μ L/well) on the plate. Dose response curve for Anti-NKG2D Antibody, hFc Tag with the EC50 of 6.6 ng/mL determined by ELISA.