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Datasheet for ABIN7275254

MICA Protein (AA 1-284) (His tag)

3 Images

Overview

Quantity:	100 µg
Target:	MICA
Protein Characteristics:	AA 1-284
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MICA protein is labelled with His tag.

Product Details

Purpose:	Cynomolgus MICA Protein
Sequence:	Glu1-Trp284
Characteristics:	Recombinant Cynomolgus MICA Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu1-Trp284.
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 MICA, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human NKG2D, hFc Tag with the EC50 of 0.55µg/ml determined by ELISA. See testing image for detail.

Target Details

Target:	MICA
Alternative Name:	MICA (MICA Products)
Background:	MICA (MHC class I chain-related gene A) is a transmembrane glycoprotein that functions as a ligand for human NKG2D. A closely related protein, MICB, shares 85 % amino acid identity with MICA. These proteins are distantly related to the MHC class I proteins. They possess three extracellular Ig-like domains, but they have no capacity to bind peptide or interact with beta 2-microglobulin..
Molecular Weight:	33.53 kDa. Due to glycosylation, the protein migrates to 48-58 kDa based on Tris-Bis PAGE result.
Pathways:	Activation of Innate immune Response , Transition Metal Ion Homeostasis

Application Details

Restrictions:	For Research Use only
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Handling

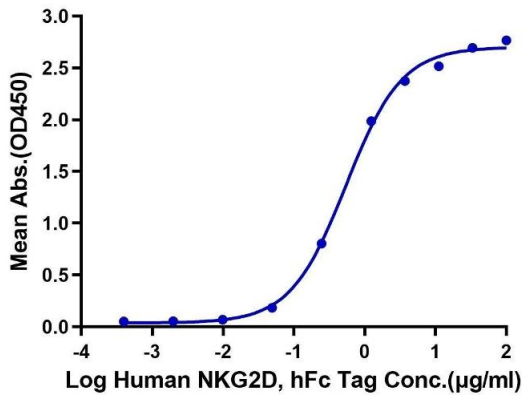
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant 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



SDS-PAGE

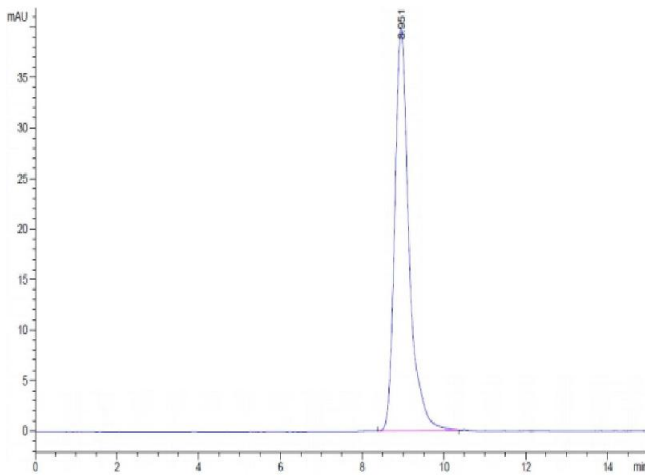
Image 1. Cynomolgus MICA on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Cynomolgus MICA, His Tag ELISA
0.1µg Cynomolgus MICA, His Tag Per Well



ELISA

Image 2. Immobilized Cynomolgus MICA, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Human NKG2D, hFc Tag with the EC50 of 0.55 µg/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Cynomolgus MICA is greater than 95 % as determined by SEC-HPLC.