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Datasheet for ABIN7319284 MICA Protein (His tag)



Overview

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

Product Details

Purpose:	Recombinant Human MICA Protein (His Tag)(Active)
Sequence:	Glu24-Gln308
Characteristics:	Recombinant Human MHC Class I Polypeptide-Related Sequence A is produced by our Mammalian expression system and the target gene encoding Glu24-Gln308 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.
Biological Activity Comment:	Immobilized Human NKG2DL-Fc(Cat: PKSH032815) at 10µg/ml(100 µl/well) can bind Human MICA-His.

Target Details

MICA

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Target Details	
Alternative Name:	MICA (MICA Products)
Background:	Background: MHC Class I Polypeptide-Related Sequence A (MICA) is a transmembrane
	glycoprotein that functions as a ligand for human NKG2D. Unlike classical MHC class I
	molecules, MICA does not form a heterodimer with beta-2-microglobulin. MICA shares 85 $\%$
	amino acid identity with a closely related protein, MICB. MICA acts as a stress-induced self-
	antigen that is recognized by NK cells, NKT cells, and most of the subtypes of T cells. As a
	Ligand for the KLRK1/NKG2D receptor, MICA binds to KLRK1 leads to cell lysis. MICA functions
	as an antigen for gamma delta T cells and is frequently expressed in epithelial tumors. MICA
	antigens are able to elicit the synthesis of alloantibodies in transplant recipients. Studies have
	shown that anti-MICA antibodies are associated with acute renal allograft rejection and failure.
	MICA recognition is involved in tumor surveillance, viral infections, and autoimmune diseases.
	Synonym: MHC Class I Polypeptide-Related Sequence A, MIC-A, MICA, PERB11.1
Molecular Weight:	33.9 kDa
Pathways:	Activation of Innate immune Response, Transition Metal Ion Homeostasis, Human Leukocyte
	Antigen (HLA) in Adaptive Immune Response
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 20 mM PB, 150 mM NaCl, pH 7.2.
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.

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