Datasheet for ABIN7505607

MICA Protein (AA 1-308) (His tag)

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Overview

Quantity:	100 µg
Target:	MICA
Protein Characteristics:	AA 1-308
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MICA protein is labelled with His tag.

Product Details

Sequence:	Met1-Gln308
Characteristics:	A DNA sequence encoding theHuman MICA protein (Q96QC4) (Met1-Gln308) was expressed with a C-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	MICA
Alternative Name:	MICA (MICA Products)
Background:	Abbreviation: MICA Target Synonym: MHC class I chain-related protein A,Stress inducible class I homolog,MHC class I polypeptide-related sequence A Background: MHC class I chain-related molecules A (MICA) is one of the genes in the HLA class

Target Details

	I region, which belongs to the MHC class I family. It is the member of the non-classical class I family that displays the greatest degree of polymorphism. The MICA protein product is expressed on the cell surface, although unlike canonical class I molecules do not seem to associate with beta-2-microglobulin. It is thought that MICA functions as a stress-induced antigen that is broadly recognized by NK cells, NKT cells, and most of the subtypes of T cells. The Natural killer group 2D (NKG2D), a C-type lectin-like activating immunoreceptor, is a receptor of MICA, which was detected on most gamma-delta T cells, CD8+ alpha-beta T cells, and natural killer (NK) cells. Effector cells from all these subsets could be stimulated by the ligation of NKG2D. Engagement of NKG2D activated cytolytic responses of gamma-delta T cells and NK cells against transfectants and epithelial tumor cells expressing MICA. The MICA system is a novel, avidin-free immunohistochemical detection system that provides a significant increase in sensitivity compared to traditional immunodetection systems.
Molecular Weight:	Calculated MW: 33 kDa Observed MW: 50-60 kDa
UniProt:	Q96QC4
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
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
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.
Expiry Date:	12 months