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Datasheet for ABIN7505571
MICB Protein (AA 1-298) (His tag)

Overview

Quantity:	100 µg
Target:	MICB
Protein Characteristics:	AA 1-298
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This MICB protein is labelled with His tag.

Product Details

Sequence:	Met 1-Gly 298
Characteristics:	A DNA sequence encoding the extracellular domain of human MICB (NP_005922.2) (Met 1-Gly 298) was expressed with a C-terminal polyhistidine tag.
Purity:	>98 % as determined by reducing SDS-PAGE.
Endotoxin Level:	<1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Immobilized human MICB-His at 10 µg/ml (100 µl/well) can bind human NKG2D, The EC50 of human NKG2D is 0.52-1.2 µg/ml.

Target Details

Target:	MICB
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Target Details

Alternative Name: MICB ([MICB Products](#))

Background: Background: MHC class I polypeptide-related sequence B, also known as MICB, is a heavily glycosylated protein serving as a ligand for the type II receptor NKG2D. MICB shares 85 % amino acid identity with MICA, a closely related protein, both of which contain three extracellular immunoglobulin-like domains, but without capacity to bind peptide or interact with beta-2-microglobulin. acting as a stress-induced self-antigen, binding of MICB to the NKG2D receptor activates the cytolytic response of natural killer (NK) cells, CD8+ $\alpha\beta$ T cells, and $\gamma\delta$ T cells on which the receptor is expressed. MICA/B are minimally expressed on normal cells, but are frequently expressed on epithelial tumors and can be induced by bacterial and viral infections. MICA/B recognition thus is involved in tumor surveillance, viral infections, and autoimmune diseases.

Synonym: PERB11.2

Molecular Weight: 33 kDa

UniProt: [Q29980](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.

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
