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Datasheet for ABIN7520330  
**MICA Protein (His tag)**

### Overview

Quantity:	20 µg
Target:	MICA
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This MICA protein is labelled with His tag.

### Product Details

Purpose:	Active Recombinant Human MIC-A Protein
Sequence:	MGLGPVFLLL AGIFPFAPPG AAAEPHSLRY NLTVLSWDGS VQSGFLTEVH LDGQPFLRCD RQKCRAKPQG QWAEDVLGNK TWDRETRDLT GNGKDLRMTL AHIKDQKEGL HSLQEIRVCE IHEDNSTRSS QHFYYDGELF LSQNLETKEW TMPQSSRAQT LAMNVRNFLK EDAMKTKTHY HAMHADCLQE LRRYLKSGVV LRRTVPPMVN VTRSEASEGN ITVTCRASGF YPWNITLSWR QDGVSLSHDT QQWGDVLPDG NGTYQTTWVAT RICQGEEQRF TCYMEHSGNH STHPVPSGKV LVLQSHWQ
Specificity:	Met1-Gln308
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human MICA Protein at 2 µ

## Product Details

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g/mL (100 µL/well) can bind NKG2D with a linear range of 0.61-14.3 ng/mL.

## Target Details

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Target: MICA

Alternative Name: MIC-A ([MICA Products](#))

Background: Description: MHC class I chain-related molecules A (MICA) is one of the genes in the HLA class I region, which belongs to 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 it does not seem to associate with beta-2-microglobulin. It is a ligand for the NKG2-D type II integral membrane protein receptor. The protein functions as a stress-induced antigen that is broadly recognized by intestinal epithelial gamma delta T cells. Variations in this gene have been associated with susceptibility to psoriasis 1 and psoriatic arthritis, and the shedding of MICA-related antibodies and ligands is involved in the progression from monoclonal gammopathy of undetermined significance to multiple myeloma.

Name: MICA, MIC-A, PERB11.1, MHC class I polypeptide-related sequence A, MIC-A, PERB11.1

Gene ID: 100507436

UniProt: [Q29983](#)

Pathways: [Activation of Innate immune Response](#), [Transition Metal Ion Homeostasis](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C, -80 °C

## Handling

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Storage Comment: Store the lyophilized protein at -20°C to -80 °C for long term.  
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.