

PRODUCT INFORMATION

MICA Target

MIC-A; PERB11.1 **Synonyms**

Recombinant Human MICA Protein with C-terminal **Description**

6×His tag

Delivery In Stock **Uniprot ID** Q29983 **Expression Host HEK293**

Tag C-6×His Tag

Molecular Characterization

Storage & Shipping

Background

MICA (Glu24-Trp307) 6×His tag

The protein has a predicted molecular mass of **Molecular Weight**

33.5 kDa after removal of the signal peptide. The apparent molecular mass of MICA-His is

approximately 55-70 kDa due to glycosylation.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

This gene encodes the highly polymorphic major histocompatability complex class I chain-related protein A. The 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. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan

20141

Usage Research use only

Conjugate Unconjugated

> Email: info@dimabio.com Website: www.dimabio.com







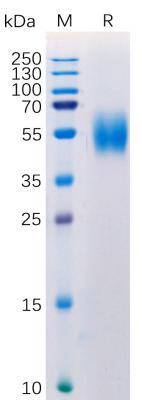


Figure 1. Human MICA Protein, His Tag on SDS-PAGE under reducing condition.

Human MICA, His Tagged protein ELISA

0.2 µg of MICA, His Tagged protein per well

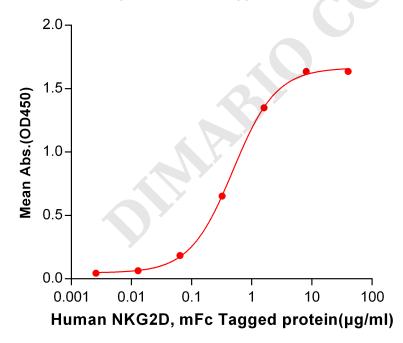


Figure 2. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human MICA, His tagged protein (PME100349) can bind Human NKG2D, mFc tagged protein (PME100079) in a linear range of 0.064-1.6 μ g/ml.

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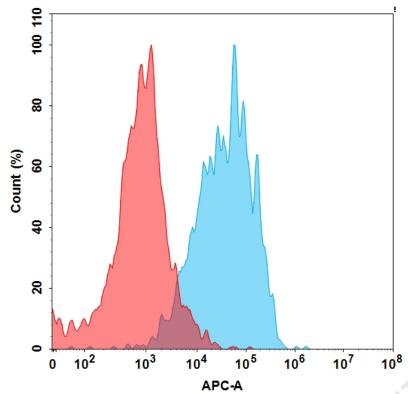


Figure 3. Flow cytometry analysis with 15 μ g/mL Human MICA Protein, His Tag (PME100349) on HEK293 cells transfected with Human NKG2D protein and Human DAP10 protein (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

