

MICA Protein, Human (HEK293, mFc)

Cat. No.:	HY-P700790
Synonyms:	MICA; MIC-A; MICA alpha 3
Species:	Human
Source:	HEK293
Accession:	NP_001276081.1 (R105-S200)
Gene ID:	100507436
Molecular Weight:	50-65 kDa

PROPERTIES

Biological Activity	Immobilized Human MICA alpha 3, mFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-MICA Antibody, hFc Tag with the EC ₅₀ of 76.9ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>MICA, the gene encoding the major histocompatibility complex class I chain-related protein A, produces a highly polymorphic protein expressed on the cell surface. Unlike conventional class I molecules, it does not appear to associate with beta-2-microglobulin. Functioning as a ligand for the NKG2-D type II integral membrane protein receptor, this protein acts as a stress-induced antigen recognized by intestinal epithelial gamma delta T cells. Genetic variations in MICA have been linked to susceptibility to psoriasis 1 and psoriatic arthritis. The shedding of MICA-related antibodies and ligands is implicated in the progression from monoclonal gammopathy of undetermined significance to multiple myeloma.</p> <p>Alternative splicing of this gene yields multiple transcript variants. MICA demonstrates ubiquitous expression, with notable levels observed in the lung (RPKM 8.7), endometrium (RPKM 7.4), and 25 other tissues.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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