

Recombinant Full Length Human MICA Protein, C-Flag-tagged

Cat. No. MICA-746HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MICA Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes the highly polymorphic major histocompatibility 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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	38.3 kDa
AA Sequence	MGLGPVFLLLAGIFPFAPPGAAAEPHSLRYNLTVLSWDGSGVQSGFLAEVHLDGQPFL RYDRQKCRAPQG QWAEDVLGNKTWDRETRDLTGNGKDLRMTLAHIKDQKEGLH SLQEIRVCEIHEDNSTRSSQHFYYDGELF LSQNLETEEWTVPQSSRAQTLAMNVRN

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FLKEDAMKTKTHYHAMHADCLQELRRYLESGVVLRRTPPMVN VTRSEASEGNITV
 TCRASSFYPRNIILTWRQDGVSLSHDTQQWGDVLPDGNNGTYQTTWATRICRGEEQ
 RF
 TCYMEHSGNHSTHPVPSGKVLVLQSHWQTFHVSAVAAGCCYFCYYYFLCPLLTRT
 RPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

Gene Name	MICA MHC class I polypeptide-related sequence A [Homo sapiens (human)]
Official Symbol	MICA
Synonyms	MIC-A; PERB11.1
Gene ID	100507436
mRNA Refseq	NM_001177519.3

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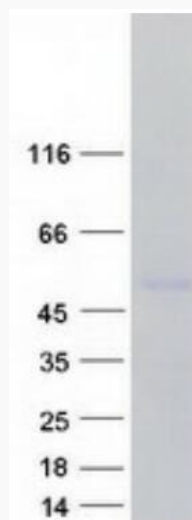
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Protein Refseq NP_001170990.1

MIM 600169

UniProt ID Q96QC4



Coomassie blue staining of purified MICA protein.

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