

Recombinant Human MICA Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MICA-6630H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MICA MS Standard C13 and N15-labeled recombinant protein (NP_000238) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	42.9 kDa
AA Sequence	MGLGPVFLLLAGIFPFAPPGAAAEPHSLRYNLTVLSWDGSVQSGFLTVEVHLDGQPFL RCDRQKCRAPQGQWAEDVLGNKTWDRETRDLTGNGKDLRMTLAHIKDQKEGLH SLQEIRVCEIHEDNSTRSSQHFYYDGELFLSQNLETEEWTMPQSSRAQTLAMNVRN

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FLKEDAMKTKTHYHAMHADCLQELRRYLKSGVLRRTVPPMVNVTRSEASEGNITV
 TCRASGFYPWNITLSWRQDGVSLSHDTQQWGDVLPDGNNGTYQTWVATRICQGEE
 QRFTCYMEHSGNHSTHPVPSGKVLVLQSHWQTFHVSAAAAAIFVIIIIFYVRCKKK
 TSAAEGPELVSLQVLDQHPVGTSDHRDATQLGFQPLMSDLGSTGSTEGETTRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MICA MHC class I polypeptide-related sequence A [Homo sapiens (human)]

Official Symbol MICA

Synonyms MICA; MHC class I polypeptide-related sequence A; PERB11.1; HLA class I antigen; stress inducible class I homolog; MHC class I chain-related protein A; MIC-A; FLJ36918; FLJ60820; MGC21250; MGC111087;

Gene ID 100507436

mRNA Refseq NM_000247

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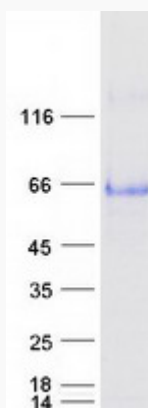
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Protein Refseq NP_000238

MIM 600169

UniProt ID Q29983

SDS-PAGE



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