

Product datasheet for PH304447

MICA (NM_000247) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MICA MS Standard C13 and N15-labeled recombinant protein (NP_000238)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204447
Predicted MW:	42.9 kDa
Protein Sequence:	>RC204447 protein sequence Red=Cloning site Green=Tags(s)

MGLGPVFLLLAGIFPFAPPAAAAEPHSLRYNLTVLSWDGSVQSGFLTEVHLDGQPFLRCDRQKCRAPQG
QWAEDVLGKNTWDRETRDLTGNGKDLRMTLAHIKDQKEGLHSLQEIRVCEIHEDNSTRSSQHFYYDGELF
LSQNLETEEWTMPQSSRAQTLAMNVRNFLKEDAMKTKTHYHAMHADCLQELRRYLKSGVLLRRTVPPMVN
VTRSEASEGNITVTCRASGFYPWNITLSWRQDGVSLSHDTQQWGDVLPDGNQTYQTWVATRICQGEQRF
TCYMEHSGNHSTHPVPSGKVLVLQSHWQTFHVSAAAAAIFVIIIFYVRCCKKTSAAEGPELVSLQVLD
QHPVGTSDHRDATQLGFQPLMSDLGSTGSTEGET

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000238</u>
RefSeq Size:	1410
RefSeq ORF:	1149
Synonyms:	MIC-A; PERB11.1
Locus ID:	100507436



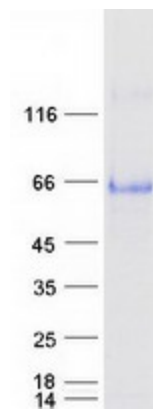
[View online »](#)

UniProt ID: [Q29983](#)

Cytogenetics: 6p21.33

Summary: 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. [provided by RefSeq, Jan 2014]

Product images:



Coomassie blue staining of purified MICA protein (Cat# [TP304447]). The protein was produced from HEK293T cells transfected with MICA cDNA clone (Cat# [RC204447]) using MegaTran 2.0 (Cat# [TT210002]).