

# Product Information

## MemDX™ Membrane Protein Human MICA (MHC class I polypeptide-related sequence A)

### Full Length

Cat. No.: **MPC2226K**

This product is for research use only and is not intended for diagnostic use.

This product is a 42.9 kDa Human MICA membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

MICA

#### Protein Length

Full length

#### Protein Class

Immunity

#### Molecular Weight

42.9 kDa

#### TMD

1

#### Sequence

MGLGPVFLLLAGIFPFAPPAAAAEPHSLRYNLTVLSWDGSVQSGFLTEVH  
LDGQPFLRCDRQKCRAPQGQWAEDVLGNKTWDRETRDLTGNGKDLRMTL  
AHIKDQKEGLHSLQEIRVCEIHEDNSTRSSQHFFYYDGELFLSQNLETKEW  
TMPQSSRAQTLAMNVRNFLKEDAMKTKTHYHAMHADCLQELRRYLKSGVV  
LRRTVPPMVNVTRSEASEGNITVTCRASGFYPWNITLSWRQDGVSLSHDT  
QQWGDVLPDGNQTYQTWVATRICQGEEQRFTCYMEHSGNHSTHPVPSGKV  
LVLQSHWQTFHVSAAAAAIFVIIIIFYVRCCKKTSAAEGPELVSLQVLD  
QHPVGTSDHRDATQLGFQPLMSDLGSTGSTEGA

### Product Description

#### Expression Systems

HEK293

#### Tag

Based on specific requirements

### **Protein Format**

Detergent or based on specific requirements

### **Form**

Liquid

### **Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

## **Target**

### **Target Protein**

MICA

### **Full Name**

MHC class I polypeptide-related sequence A

### **Introduction**

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.

### **Alternative Names**

MICA; MIC-A; PERB11.1; HLA class I antigen; MHC class I chain-related protein A; MHC class I related chain A; MHC class I related sequence A; major histocompatibility complex class I chain-related protein A; stress inducible class I homolog; truncated MHC class I polypeptide-related sequence A; truncated MICA; MHC class I polypeptide-related sequence A

### **Gene ID**

[100507436](#)

### **UniProt ID**

[Q29983](#)