

Product Information

MemDX™ Antibody Discovery - Human MICA (24-308) Membrane Protein, Partial, -hIgG1 Fc tag

Cat. No.: **MP0631F**

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

This membrane protein is Human MICA (24-308). It has been tested in SDS-PAGE, ELISA. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species

Human

Target Protein

MICA

Protein Length

ECD

Molecular Weight

The protein has a calculated MW of 59.3 kDa. The protein migrates as 70-90 kDa under reducing (R) condition (SDS-PAGE) due to Glycosylation.

Sequence

AA Glu 24- Gln 308 (Accession # AAH16929.1).

Product Description

Activity

Yes

Application

SDS-PAGE, ELISA

Expression Systems

HEK293

Tag

Human IgG1 Fc tag at the C-terminus

Protein Format

Soluble

Form

LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>95% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.

The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile conditions after reconstitution after storage at -80°C.

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

MIC-A; PERB11.1; MHC class I polypeptide-related sequence A; 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

Gene ID

[100507436](#)

UniProt ID

[Q29983](#)