

ARG82693 Human MICA ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82693-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82693-002	Standard	2 X 10 ng/vial	4°C
ARG82693-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82693-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82693-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82693-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82693-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82693-008	25X Wash buffer	20 ml	4°C
ARG82693-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82693-010	STOP solution	10 ml (Ready to use)	4°C
ARG82693-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82693 Human MICA ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human MICA in serum and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	MICA
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	32 pg/ml
Sample Type	Serum and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 7.3% Inter-Assay CV: 8.1%

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

Application Instructions

Assay Time ~ 5 hours

Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol MICA

Gene Full Name MHC class I polypeptide-related sequence A

Background 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]

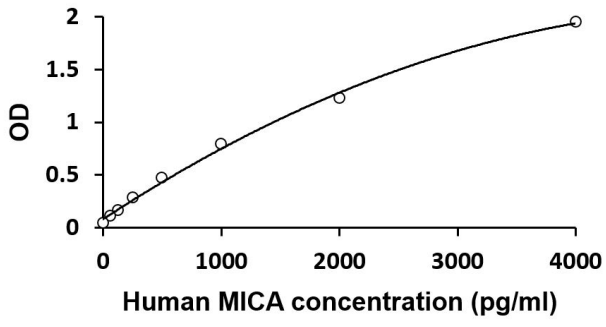
Function Seems to have no role in antigen presentation. Acts as a stress-induced self-antigen that is recognized by gamma delta T-cells. Ligand for the KLRK1/NKG2D receptor. Binding to KLRK1 leads to cell lysis. [UniProt]

Highlight Related products:
[MICA antibodies](#); [MICA ELISA Kits](#);
New ELISA data calculation tool:
[Simplify the ELISA analysis by GainData](#)

PTM N-glycosylated. Glycosylation is not essential for interaction with KLRK1/NKG2D but enhances complex formation.

Proteolytically cleaved and released from the cell surface of tumor cells which impairs KLRK1/NKG2D expression and T-cell activation. [UniProt]

Cellular Localization Cell membrane; Single-pass type I membrane protein. Cytoplasm. Note=Expressed on the cell surface in gastric epithelium, endothelial cells and fibroblasts and in the cytoplasm in keratinocytes and monocytes. Infection with human adenovirus 5 suppresses cell surface expression due to the adenoviral E3-19K protein which causes retention in the endoplasmic reticulum. [UniProt]



ARG82693 Human MICA ELISA Kit standard curve image

ARG82693 Human MICA ELISA Kit results of a typical standard run with optical density reading at 450 nm.