ARG81329
Human MICA ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG81329 Human MICA ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human MICA in cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Recognizes both natural and recombinant Human MICA. No cross reactivity with IL-7, IL-12p40, IL-2R, Trail, CD31, IL-13Rα2, IL-5, gp130, TNFα.
Target Name	MICA
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	123 pg/ml
Sample Type	Cell culture supernatants.
Standard Range	156.25 - 5000 pg/ml
Sample Volume	100 µl
Alternate Names	MHC class I polypeptide-related sequence A; PERB11.1; MIC-A

Application Instructions

Assay Time	~ 4 hours

Properties

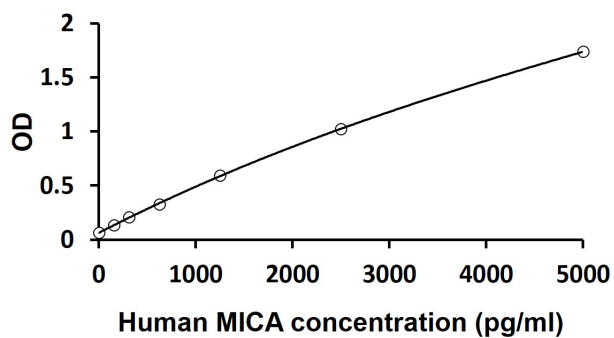|	
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory 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 histocompatability 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

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	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]

Images

ARG81329 Human MICA ELISA Kit standard curve image

ARG81329 Human MICA ELISA Kit results of a typical standard run with optical density reading at 450 nm.