

ARG55847 anti-MICA antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MICA
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MICA
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 68-97 (Center) of Human MICA.
Conjugation	Un-conjugated
Alternate Names	MHC class I polypeptide-related sequence A; PERB11.1; MIC-A

Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	ICC/IF	1:10 - 1:50
	IHC-P	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Daudi	
Observed Size	~ 50 kDa	

Properties

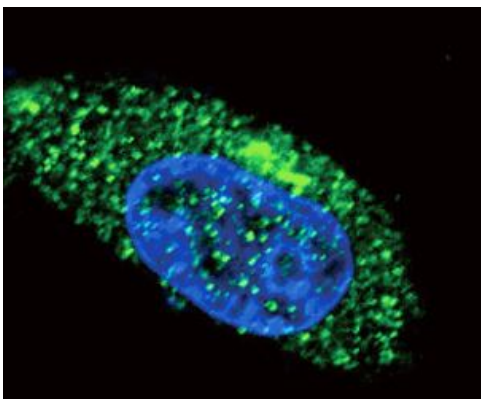
Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

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

Bioinformation

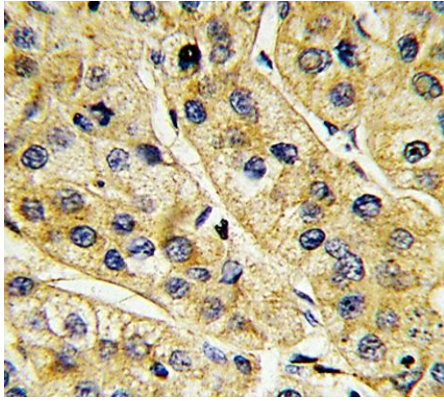
Database links	GeneID: 100507436 Human Swiss-port # Q29983 Human
Gene Symbol	MICA
Gene Full Name	MHC class I polypeptide-related sequence A
Background	This gene encodes the highly polymorphic major histocompatibility complex class I chain-related protein A. The protein product is expressed on the cell 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]
Calculated Mw	43 kDa
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.
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

Images



ARG55847 anti-MICA antibody ICC/IF image

Immunofluorescence: MDA-MB-231 cells stained with ARG55847 anti-MICA antibody (green). DAPI (blue) for nuclear staining.



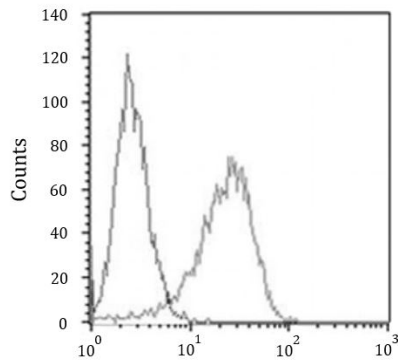
ARG55847 anti-MICA antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human hepatocarcinoma stained with ARG55847 anti-MICA antibody.



ARG55847 anti-MICA antibody WB image

Western blot: 20 µg of Daudi whole cell lysate stained with ARG55847 anti-MICA antibody at 1:1000 dilution.



ARG55847 anti-MICA antibody FACS image

Flow Cytometry: SK-BR-3 cells stained with ARG55847 anti-MICA antibody (right histogram) at 1:25 dilution or isotype control antibody (left histogram), followed by incubation with Alexa Fluor® 488 labelled secondary antibody.