

## Product datasheet for **CF813273**

### MICA Mouse Monoclonal Antibody [Clone ID: OTI2C3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2C3
Applications:	FC, WB
Recommended Dilution:	WB 1:500-1000, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human MICA (NP_000238) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	42.9 kDa
Gene Name:	MHC class I polypeptide-related sequence A
Database Link:	<a href="#">NP_000238</a> <a href="#">Entrez Gene 100507436 Human</a> <a href="#">Q29983</a>



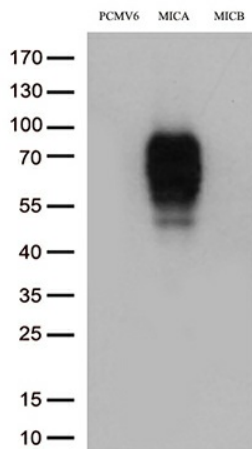
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**Background:**

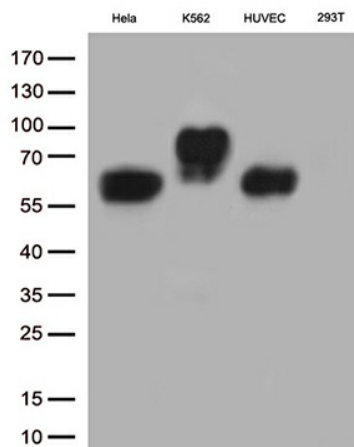
This gene encodes the highly polymorphic major histocompatibility complex class I chain-related protein A. The protein product is expressed on the cell surface, although unlike canonical class I molecules it does not seem to associate with beta-2-microglobulin. It is a ligand for the NKG2-D type II integral 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]

**Synonyms:**

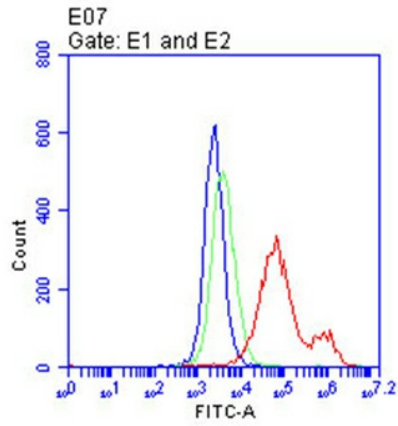
MIC-A; PERB11.1

**Product images:**


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MICA/MICB ([RC204447]/[RC222315], Middle/Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MICA.(1:1000)



Western blot analysis of extracts (35ug) from 4 cell lines lysates by using anti-MICA monoclonal antibody. (1:500)



Flow cytometric analysis of living 293T cells transfected with MICA overexpression plasmid ([RC204447]), Red)/empty vector ([PS100001], Blue) using anti-MICA antibody ([TA813273]). Cells incubated with a non-specific antibody (Green) were used as isotype control.(1:100)