

For Research Use Only

MICA Monoclonal antibody

Catalog Number: 66384-1-Ig **3 Publications**



Basic Information

Catalog Number: 66384-1-Ig	GenBank Accession Number: BC016929	Purification Method: Protein A purification
Size: 150ul , Concentration: 1500 ug/ml by Nanodrop;	GeneID (NCBI): 100507436	CloneNo.: 1E2C8
Source: Mouse	UNIPROT ID: Q29983	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500
Isotype: IgG1	Full Name: MHC class I polypeptide-related sequence A	
Immunogen Catalog Number: AG3298	Calculated MW: 383 aa, 43 kDa	
	Observed MW: 43-50 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IF, IHC	WB : HaCaT cells, Daudi cells, Raji cells, Jurkat cells, HeLa cells, A431 cells
Species Specificity: human	IHC : human tonsillitis tissue, human colon tissue
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Human MHC class I chain-related genes located within the HLA class I region of chromosome 6 encode MHC class I chain-related A and B (MICA and MICB) (PMID: 11429322). MICA and MICB are stress-inducible surface molecules that are not associated with β 2-microglobulin and do not present peptides (PMID: 9497295). They are expressed in intestinal epithelium and many epithelial tumors (PMID: 10359807). MICA and MICB are ligands for NKG2D which is an activating receptor that is expressed on most natural killer (NK) cells, CD8 $\alpha\beta$ T cells, and $\gamma\delta$ T cells (PMID: 10426993, 11491531).

Notable Publications

Author	Pubmed ID	Journal	Application
Xin Fang	35183714	Pharmacol Res	IF
Chunmei Yang	38043385	Phytomedicine	WB,IF
Deli Mao	37591356	Cancer Lett	WB,IHC,IF

Storage

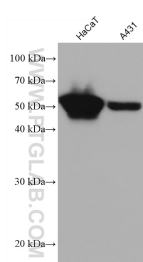
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

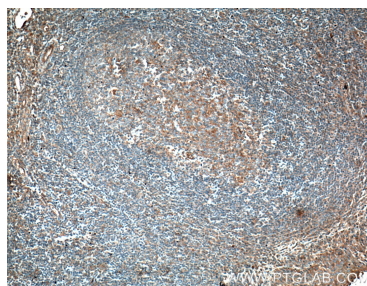
For technical support and original validation data for this product please contact:
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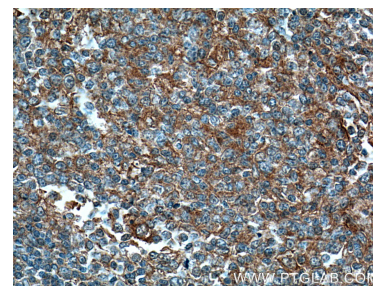
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66384-1-Ig (MICA antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66384-1-Ig (MICA Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66384-1-Ig (MICA Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).