

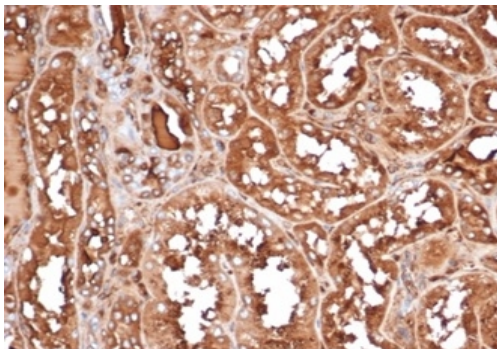
## MICA

Mouse Monoclonal Antibody [Clone MICA/4443]

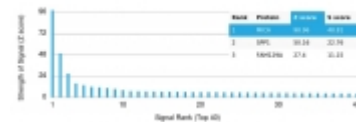
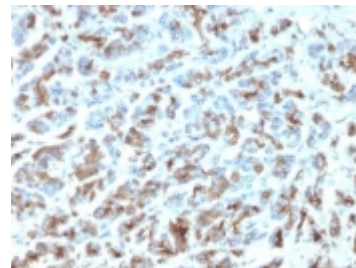
Catalog No	Format	Size	Price (USD)
100507436-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug	219.00
100507436-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug	499.00
100507436-MSM3-P1ABX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug	499.00

Human Entrez Gene ID	100507436
Human SwissProt	Q29983
Human Unigene	130838 & 728757
Human Gene Symbol	MICA
Human Chromosome Location	6p21.33
Synonyms	HLA class I antigen; MHC class I chain related gene A protein antibody; MHC class I chain related protein A; MHC class I chain related protein A HLA B HLA C; MHC class I polypeptide related sequence A; MHC class I polypeptide-related sequence A; MHC class I related protein; MIC A; MIC-A; micA; PERB11.1; Stress inducible class I homolog

Immunogen	Recombinant fragment (around aa1-200) of human MICA (exact sequence is proprietary)
Host / Ig Isotype	Mouse / IgG2b, kappa
Mol. Weight of Antigen	92kDa
Cellular Localization	Cell surface, Cytoplasm.
Species Reactivity	Human, Mouse and Rat.
Positive Control	HeLa or MCF-7 cells. Human kidney, breast or prostate.



Formalin-fixed, paraffin-embedded human kidney stained with MICA Mouse Recombinant Monoclonal Antibody (MICA/4443). HIER: Tris/EDTA, pH9.0, 45min. 2Å: HRP-polymer, 30min. DAB, 5min.



### Specificity & Comments

MICA and MICB are stress-induced antigens that are related to major histocompatibility complex (MHC) class I molecules. MICA and MICB are frequently expressed in epithelial tumors. These highly glycosylated cell surface proteins are stably expressed without conventional class I peptide ligands or association with  $\beta$ 2-microglobulin. The expression is induced on proliferating or heat shock-stressed epithelial cells. MICA and MICB are broadly recognized by intestinal epithelial V  $\alpha$ 1  $\beta$   $\gamma$  T cells expressing variable TCRs, suggesting that these antigens may play a central role in the signaling of cellular distress to evoke immune responses in the intestinal epithelium.

### Known Applications & Suggested Dilutions

Western Blot (1-2ug/ml)  
Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)  
(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes)  
Optimal dilution for a specific application should be determined.

### Key References

1. Bedel, R., et al. 2011. Novel role for STAT3 in transcriptional regulation of NK immune cell targeting receptor MICA on cancer cells. Cancer Res. 71:1615-1626.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Limitations

This antibody is available for research use only and is not approved for use in diagnosis.

### Warranty

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.