MICA Antibody

Mouse Monoclonal Antibody [Clone MICA/4443]

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

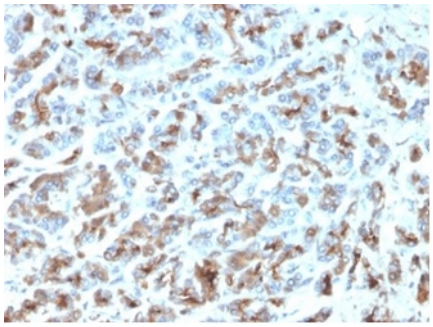
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

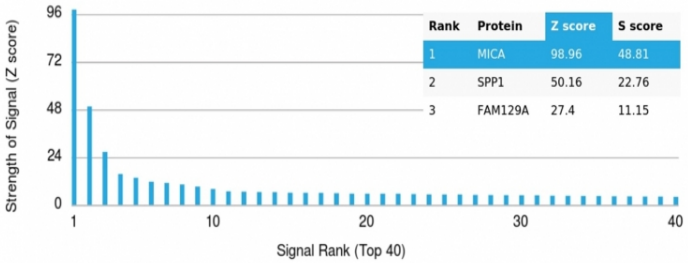
Clone	MICA/4443
Gene Name	MICA
Immunogen	Recombinant fragment (around aa1-200) of human MICA (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	92kDa
Cellular Localization	Cell membrane, Cytoplasm
Species Reactivity	Human
Positive Control	breast or prostate., HeLa or MCF-7 cells. Human kidney

**Optimal dilution for a specific application should be determined.*

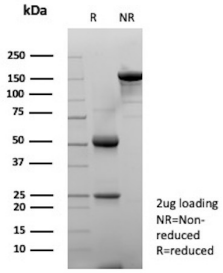
Product Images for MICA Antibody



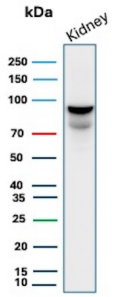
Formalin-fixed, paraffin-embedded human stomach stained with MICA Mouse Recombinant Monoclonal Antibody (MICA/4443). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



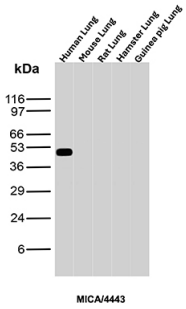
Analysis of Protein Array containing >19,000 full-length human proteins using MICA Mouse Recombinant Monoclonal Antibody (MICA/4443). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



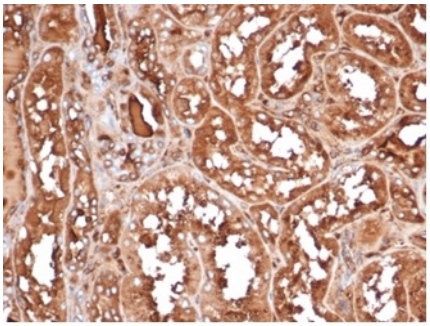
SDS-PAGE Analysis of Purified MICA Mouse Monoclonal Antibody(MICA/4443). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of human kidney tissue lysate using MICA Mouse Monoclonal Antibody (MICA/4443).



Western blot analysis of Human Lung, Mouse Lung, Rat Lung, Hamster Lung and Guinea pig Lung tissue lysates using MICA Mouse Monoclonal Antibody (MICA/4443).



Formalin-fixed, paraffin-embedded human kidney stained with MICA Mouse Recombinant Monoclonal Antibody (MICA/4443). HIER: Tris/EDTA, pH9.0, 45min. 2°C: 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 ?-2-microglobulin. The expression is induced on proliferating or heat shock-stressed epithelial cells. MICA and MICB are broadly recognized by intestinal epithelial V?1 ?? 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.

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.

Research Areas

Immunology

Limitations and Warranty

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