MICA Antibody [clone MICA/4443] (V9703)

Catalog No.	Formulation	Size
V9703-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9703-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9703SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MICA/4443
Purity	Protein A/G affinity
UniProt	Q29983
Localization	Cell surface, Cytoplasm
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This MICA antibody is available for research use only.
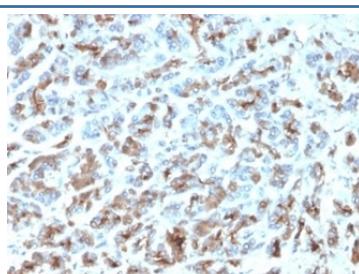
IHC staining of FFPE human stomach with MICA antibody (clone MICA/4443). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.
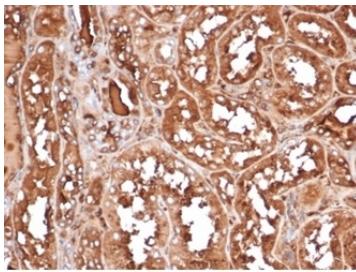
IHC staining of FFPE human kidney tissue with MICA antibody (clone MICA/4443). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Human Protein Microarray Specificity Validation

Rank	Protein	Z score	S score
1	MICA	98.96	48.81
2	SPP1	50.16	22.76
3	FAM129A	27.4	11.15
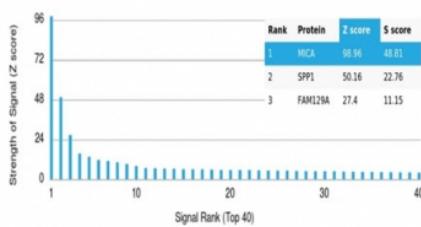
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using MICA antibody (clone MICA/4443). These results demonstrate the foremost specificity of the MICA/4443 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

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 ÃŽÂ³ÃŽÂ´ 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.

Application Notes

Optimal dilution of the MICA antibody should be determined by the researcher.

Immunogen

A portion of amino acids 1-200 was used as the immunogen for the MICA antibody.

Storage

Aliquot the MICA antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.