

Datasheet for ABIN7126098  
**anti-MICA antibody (AA 1-200)**



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4 Images

## Overview

Quantity:	20 µg
Target:	MICA
Binding Specificity:	AA 1-200
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MICA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

## Product Details

Immunogen:	Recombinant fragment (around aa1-200) of human MICA (exact sequence is proprietary)
Isotype:	IgG2b
Specificity:	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 i <sup>2</sup> -2-microglobulin. The expression is induced on proliferating or heat shock-stressed epithelial cells. MICA and MICB are broadly recognized by intestinal epithelial V L1 i <sup>3</sup> L 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.
Cross-Reactivity (Details):	Human, Mouse and Rat.

## Product Details

Purification: 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G.

## Target Details

Target:	MICA
Alternative Name:	MICA ( <a href="#">MICA Products</a> )
Background:	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,MICA Cellular localisation: Cell surface. Cytoplasm.
Molecular Weight:	92kDa
Gene ID:	100507436
UniProt:	<a href="#">Q29983</a>
Pathways:	<a href="#">Activation of Innate immune Response</a> , <a href="#">Transition Metal Ion Homeostasis</a> , <a href="#">Human Leukocyte Antigen (HLA) in Adaptive Immune Response</a>

## Application Details

Application Notes:	Positive Control: HeLa or MCF-7 cells. Human breast, kidney or prostate. Known Application: Western Blot (1-2 µg/mL),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

## Handling

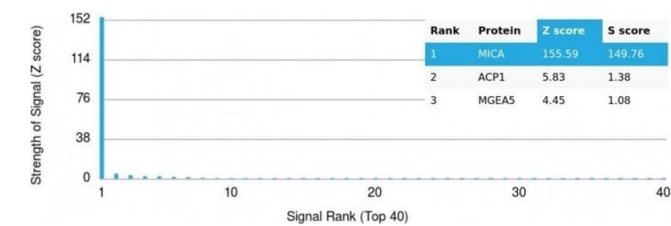
Concentration:	200 µg/mL
Buffer:	Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

Storage Comment: Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.

Expiry Date: 24 months

Images

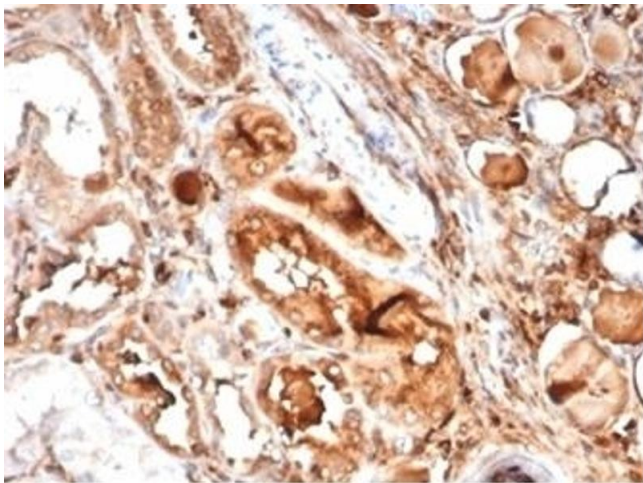


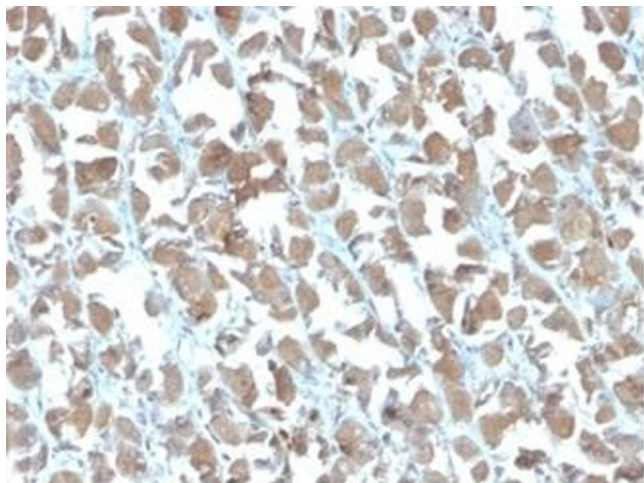
Protein Array

**Image 1.** Analysis of Protein Array containing >19,000 full-length human proteins using MICA Mouse Recombinant Monoclonal Antibody (MICA/4442). 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 HuProt™ 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 HuProt™ 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.

Immunohistochemistry

**Image 2.** Formalin-fixed, paraffin-embedded human kidney stained with MICA Mouse Recombinant Monoclonal Antibody (MICA/4442). HIER: Tris/EDTA, pH 9.0, 45 min. 2 °: HRP-polymer, 30 min. DAB, 5 min.





#### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human stomach stained with MICA Mouse Recombinant Monoclonal Antibody (MICA/4442). HIER: Tris/EDTA, pH 9.0, 45 min. 2 °: HRP-polymer, 30 min. DAB, 5 min.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7126098.