

Datasheet for ABIN7504179  
**anti-MICA antibody (AA 1-200)**[Go to Product page](#)

## 4 Images

## Overview

Quantity:	100 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 ([MICA Products](#))

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: [Q29983](#)

Pathways: [Activation of Innate immune Response](#), [Transition Metal Ion Homeostasis](#), [Human Leukocyte Antigen \(HLA\) in Adaptive Immune Response](#)

## 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.

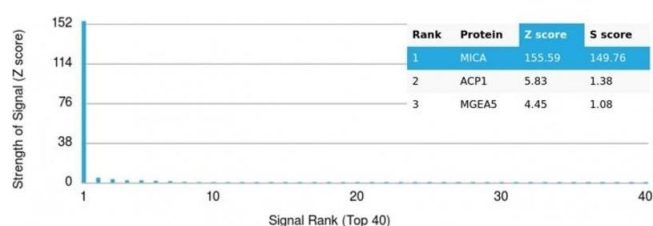
Storage: 4 °C, -80 °C

## 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.

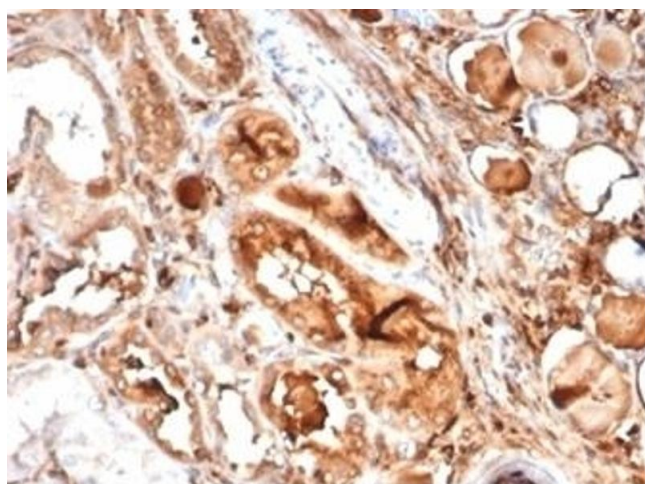
Expiry Date: 24 months

## Images



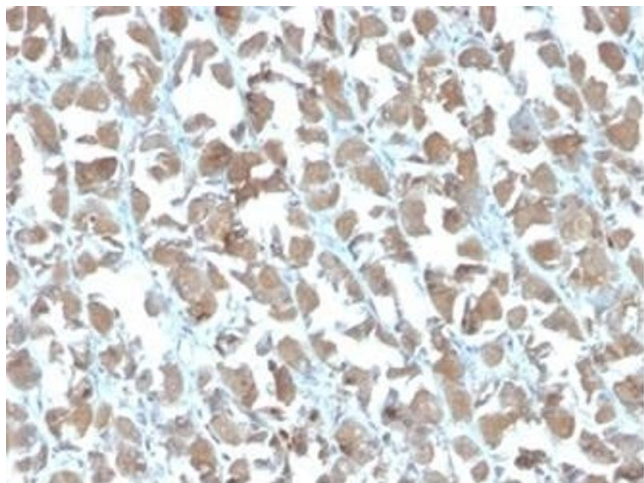
### Protein Array

**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 ABIN7504179.