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## **MICA Recombinant Monoclonal Antibody**

StorageUpon receipt, store at -20°C or -80°C. Avoid repeated freeze.Uniprot No.Q29983ImmunogenA synthesized peptide derived from Human MICASpecies ReactivityHuman	
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Immunogen A synthesized peptide derived from Human MICA   Species Reactivity Human	
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Tested Applications   ELISA, IHC; Recommended dilution: IHC:1:50-1:200	
Form Liquid	
Conjugate Non-conjugated	
Storage BufferRabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.	
Purification Method Affinity-chromatography	
Isotype Rabbit IgG	
Clonality Monoclonal	
Product Type Recombinant Antibody	
Immunogen Species Homo sapiens (Human)	
Research Area Immunology	
Gene Names MICA	
Clone No. 9F1	

Image



IHC image of CSB-RA574653A0HU diluted at 1:80 and staining in paraffin-embedded human small intestine tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.49% DAB.



IHC image of CSB-RA574653A0HU diluted at 1:80 and staining in paraffin-embedded human liver cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.49% DAB.

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Description

In vitro expression systems are used to generate the MICA recombinant monoclonal antibody, involving the cloning of MICA antibody DNA sequences from immunoreactive rabbits. The immunogen used is a synthesized peptide derived from the human MICA protein. Subsequently, the genes encoding the MICA antibodies are inserted into plasmid vectors, and these recombinant plasmid vectors are then transfected into host cells to enable antibody expression. Post-expression, the MICA recombinant monoclonal antibody undergoes affinity-chromatography purification and is extensively tested for functionality in ELISA and IHC applications, confirming its reactivity with the human MICA protein.

MICA is a cell surface protein that serves as a critical ligand for the NKG2D receptor on immune cells, particularly NK cells and cytotoxic T cells. Its main role is to facilitate the recognition and elimination of cells under stress, infection, or transformation, contributing to immune surveillance, anti-cancer immunity, and the immune response against various pathogens.