

MICA recombinant antibody

Anti-MICA Reference Antibody (CLN-619)

CATALOG # AAA297273	HOST CHO Cell	REACTIVITY Human, Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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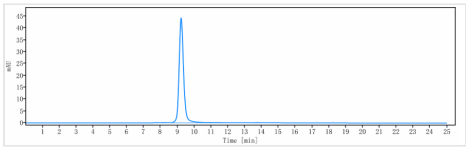
PRODUCT SYNONYMS

MICA; Monoclonal Recombinant Antibody; Anti-MICA Reference Antibody (CLN-619); MICA recombinant antibody

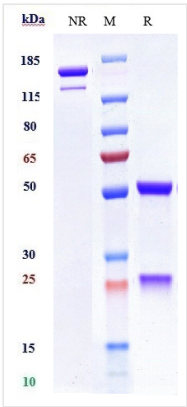
PRODUCT SPECIFICATIONS

Host	CHO Cell
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG1
Specificity	MICA
Purity/Purification	This antibody is purified through a protein A column.
Form/Format	Purified monoclonal antibody supplied in PBS, pH 6.0, without preservative.
Applicable Applications for MICA recombinant antibody	FCM/FACS (Flow Cytometry)
Endotoxin	< 0.001EU/ug, determined by LAL method.
Conjugation	Unconjugated
Function	Widely expressed membrane-bound protein which acts as a ligand to stimulate an activating receptor KLRK1/NKG2D, expressed on the surface of essentially all human natural killer (NK), gammadelta T and CD8 alphabeta T-cells (PubMed: , PubMed:). Up-regulated in stressed conditions, such as viral and bacterial infections or DNA damage response, serves as signal of cellular stress, and engagement of KLRK1/NKG2D by MICA triggers NK-cells resulting in a range of immune effector functions, such as cytotoxicity and cytokine production (PubMed:).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cytoplasm Note=Expressed on the cell surface in gastric epithelium, endothelial cells and fibroblasts and in the cytoplasm in keratinocytes and monocytes. Infection with human adenovirus 5 suppresses cell surface expression due to the adenoviral E3-19K protein which causes retention in the endoplasmic reticulum.
Tissue Location	Widely expressed with the exception of the central nervous system where it is absent. Expressed predominantly in gastric epithelium and also in monocytes, keratinocytes, endothelial cells, fibroblasts and in the outer layer of Hassal's corpuscles within the medulla of normal thymus. In skin, expressed mainly in the keratin layers, basal cells, ducts and follicles. Also expressed in many, but not all, epithelial tumors of lung, breast, kidney, ovary, prostate and colon. In thymomas, overexpressed in cortical and medullar epithelial cells. Tumors expressing MICA display increased levels of gamma delta T-cells.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store at -80 degree C for 2 years under sterile conditions; -20 degree C for 1 year under sterile conditions; Avoid repeated freeze-thaw cycles.

IMAGES



Application Data
The purity of Anti-MICA Reference Antibody (CLN-619) is more than 95%, determined by SEC-HPLC.



SDS-PAGE
Anti-MICA Reference Antibody (CLN-619) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

ADDITIONAL INFORMATION

Product Categories/Family for MICA recombinant antibody	Primary Antibodies
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NCBI AND UNIPROT INFORMATION

NCBI GI #	74740024
NCBI GeneID	100507436
UniProt Accession #	Q29983; O60917; O60918; O60919; O60920; O60933; O77956; O78150; A8KQR0; A9LRW5; A9QVE0; B1VJF1
Molecular Weight	146.06 kDa
NCBI Official Full Name	MHC class I polypeptide-related sequence A
NCBI Official Synonym Full Names	MHC class I polypeptide-related sequence A
NCBI Official Symbol	MICA
NCBI Official Synonym Symbols	MIC-A; PERB11.1
NCBI Protein Information	MHC class I polypeptide-related sequence A; MICA; HLA class I antigen; stress inducible class I homolog; MHC class I chain-related protein A
UniProt Protein Name	MHC class I polypeptide-related sequence A
UniProt Gene Name	MICA
UniProt Synonym Gene Names	MIC-A
UniProt Entry Name	MICA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/mica-recombinant-antibody-flow-cytometry-elisa/297273>