

Rabbit anti-Human, Mouse MICAL1 Polyclonal Antibody | anti-MICAL1 antibody

MICAL1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322988	Rabbit	Human, Mouse	Immunohistochemistry, Western Blot

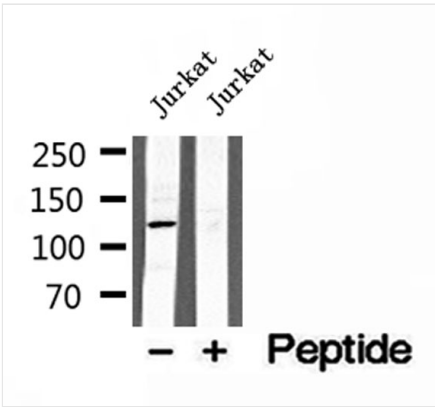
PRODUCT SYNONYMS

MICAL1; Polyclonal Antibody; MICAL1 Antibody; CasL interacting molecule; DKFZp434B1517; FLJ11937; FLJ21739; MICA1_HUMAN; MICAL 1; MICAL; microtubule associated monooxygenase; calponin and LIM domain containing 1; Molecule interacting with CasL protein 1; NEDD9 interacting protein with calponin homology and LIM domains; NEDD9-interacting protein with calponin homology and LIM domains; NICAL; OTTHUMP00000016969; anti-MICAL1 antibody

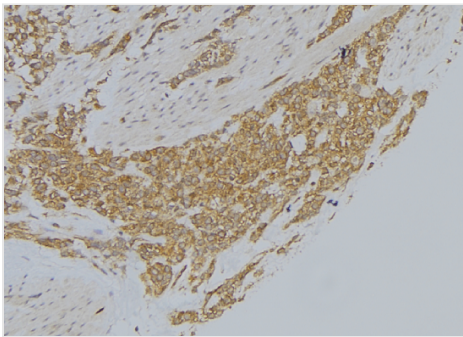
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	MICAL1 antibody detects endogenous levels of MICAL1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	981
Applicable Applications for anti-MICAL1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MICAL1.
Subcellular Location	Cytoplasm. Cytoplasm > Cytoskeleton.
Tissue Specificity	Expressed in the thymus, lung, spleen, kidney, testis and hematopoietic cells.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts of Jurkat cells, using MICAL1 antibody.



IHC (Immunohistochemistry)
AAA322988 at 1/100 staining Human lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-MICAL1 antibody	Function: Monooxygenase that promotes depolymerization of F-actin by mediating oxidation of specific methionine residues on actin to form methionine-sulfoxide, resulting in actin filament disassembly and preventing repolymerization (By similarity). In the absence of actin, it also functions as a NADPH oxidase producing H2O2 (PubMed:21864500, PubMed:26845023). Acts as a cytoskeletal regulator that connects NEDD9 to intermediate filaments. Also acts as a negative regulator of apoptosis via its interaction with STK38 and STK38L; acts by antagonizing STK38 and STK38L activation by MST1/STK4. Involved in regulation of lamina-specific connectivity in the nervous system such as the development of lamina-restricted hippocampal connections. Through redox regulation of the actin cytoskeleton controls the intracellular distribution of secretory vesicles containing L1/neurofascin/NgCAM family proteins in neurons, thereby regulating their cell surface levels (By similarity). May act as Rab effector protein and play a role in vesicle trafficking. Subunit Structure: Interacts with STK38 and STK38L (By similarity). Interacts with RAB1B, RAB8A, RAB10, RAB13 and RAB15 (in their GTP-bound forms); binding to RAB1B is of low affinity compared to other Rab proteins; at least in case of RAB8A and RAB10 can bind 2 molecules of the Rab proteins simultaneously; ternary complex formation of RAB8A, RAB13 and MICAL1 is possible. Associates with the SH3 domain of NEDD9. Interacts with VIM and PLXNA3. Interacts with RAB1B. Similarity: The bivalent Mical/EHBP Rab binding (bMERB) domain, mediates binding to predominantly Rab8, Rab10, Rab10, Rab13 and Rab15 (in their GTP-bound forms).The C-terminal coiled coil part contains the plexin-interacting region. Belongs to the Mical family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	226530313
NCBI GeneID	64780
NCBI Accession #	NP_001152763.1
NCBI GenBank Nucleotide #	NM_001159291.1
UniProt Accession #	Q8TDZ2; Q7Z633; Q8IVS9; Q96G47; Q9H6X6; Q9H7I0; Q9HAA1; Q9UFF7; B7Z3R5; E1P5F0
Molecular Weight	Observed: 120 kDa Predicted: 118 kDa
NCBI Official Full Name	[F-actin]-monooxygenase MICAL1 isoform 2
NCBI Official Synonym Full Names	microtubule associated monooxygenase, calponin and LIM domain containing 1
NCBI Official Symbol	MICAL1
NCBI Official Synonym Symbols	MICAL; NICAL; MICAL-1
NCBI Protein Information	[F-actin]-monooxygenase MICAL1

UniProt Protein Name	[F-actin]-monooxygenase MICAL1
UniProt Gene Name	MICAL1
UniProt Synonym Gene Names	MICAL; NICAL; MICAL-1

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/polyclonal/mical1-antibody-immunohistochemistry-western-blot-elisa/322988>