

Rabbit anti-Human MICAL2 Polyclonal Antibody | anti-MICAL2 antibody

MICAL2 Antibody (N-term)

CATALOG # AAA289345	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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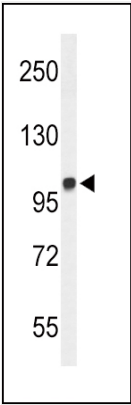
PRODUCT SYNONYMS

MICAL2; Polyclonal Antibody; MICAL2 Antibody (N-term); Protein-methionine sulfoxide oxidase MICAL2; 11413-; Molecule interacting with CasL protein 2; MICAL-2; KIAA0750; MICAL2PV1; MICAL2PV2; anti-MICAL2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MICAL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 55-83 amino acids from the N-terminal region of human MICAL2.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	55-83
Sequence Length	955
Applicable Applications for anti-MICAL2 antibody	ELISA, WB (Western Blot)
Calculated MW	126689
Function	Nuclear monooxygenase that promotes depolymerization of F-actin by mediating oxidation of specific methionine residues on actin and regulates the SRF signaling. Acts by modifying nuclear actin subunits through the addition of oxygen to form methionine-sulfoxide, leading to promote actin filament severing and prevent repolymerization. Acts as a key regulator of the SRF signaling pathway elicited by nerve growth factor and serum: mediates oxidation and subsequent depolymerization of nuclear actin, leading to increase MKL1/MRTF-A presence in the nucleus and promote SRF:MKL1/MRTF-A-dependent gene transcription. Does not activate SRF:MKL1/MRTF-A through RhoA
Cellular location	Nucleus
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
Western blot analysis of MICAL2 Antibody (N-term) in WiDr cell line lysates (35ug/lane).
MICAL2 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Product Categories/Family for anti-MICAL2 antibody	Cell Biology
References	Ashida, S., et al. Clin. Cancer Res. 12(9):2767-2773(2006) Fischer, J., et al. Biochem. Biophys. Res. Commun. 328(2):415-423(2005)

NCBI AND UNIPROT INFORMATION

NCBI GI #	7662284
NCBI GeneID	9645
NCBI Accession #	NP_055447.1
NCBI GenBank Nucleotide #	NM_014632.3
UniProt Accession #	O94851; Q5KTR3; Q5KTR4; Q7Z3A8; B4DGZ0; B7Z849; D3DQW5; G3XAC8
NCBI Official Full Name	protein-methionine sulfoxide oxidase MICAL2 isoform a
NCBI Official Synonym Full Names	microtubule associated monooxygenase, calponin and LIM domain containing 2
NCBI Official Symbol	MICAL2
NCBI Official Synonym Symbols	MICAL-2; MICAL2PV1; MICAL2PV2
NCBI Protein Information	protein-methionine sulfoxide oxidase MICAL2
UniProt Protein Name	Protein-methionine sulfoxide oxidase MICAL2
UniProt Gene Name	MICAL2
UniProt Synonym Gene Names	KIAA0750; MICAL2PV1; MICAL2PV2; MICAL-2
UniProt Entry Name	MICA2_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.