

MICAL2 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9597a

Specification

MICAL2 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O94851
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	219061
Antigen Region	55-83

MICAL2 Antibody (N-term) - Additional Information

Gene ID 9645

Other Names

Protein-methionine sulfoxide oxidase MICAL2, 11413-, Molecule interacting with CasL protein 2, MICAL-2, MICAL2, KIAA0750, MICAL2PV1, MICAL2PV2

Target/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.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

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.

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.

Precautions

MICAL2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MICAL2 Antibody (N-term) - Protein Information

Name MICAL2 ([HGNC:24693](#))

Function Methionine monooxygenase that promotes depolymerization of F- actin by mediating

oxidation of residues 'Met-44' and 'Met-47' on actin to form methionine-sulfoxide, resulting in actin filament disassembly and preventing repolymerization (PubMed:[24440334](#), PubMed:[29343822](#)). Regulates the disassembly of branched actin networks also by oxidizing ARP3B-containing ARP2/3 complexes leading to ARP3B dissociation from the network (PubMed:[34106209](#)). 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 (PubMed:[24440334](#)).

Cellular Location

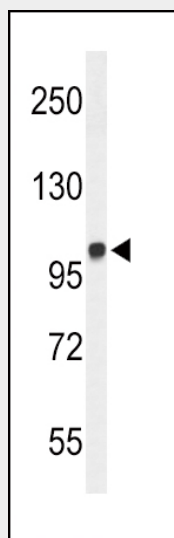
Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q8BML1}

MICAL2 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MICAL2 Antibody (N-term) - Images



Western blot analysis of MICAL2 Antibody (N-term) (Cat. #AP9597a) in WiDr cell line lysates (35ug/lane). MICAL2 (arrow) was detected using the purified Pab.

MICAL2 Antibody (N-term) - 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)