

MICAL2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP9597a**Specification**

MICAL2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O94851](#)**MICAL2 Antibody (N-term) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MICAL2 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MICAL2 Antibody (N-term) Blocking Peptide - Images**MICAL2 Antibody (N-term) Blocking Peptide - 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)