

MICAL3 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57316

Specification

MICAL3 Polyclonal Antibody - Product Information

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	Q7RTP6
Reactivity	Rat, Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	224295

MICAL3 Polyclonal Antibody - Additional Information

Gene ID 57553

Other Names

[F-actin]-monooxygenase MICAL3, 1.14.13.225, Molecule interacting with CasL protein 3, MICAL-3, MICAL3, KIAA0819, KIAA1364

Format

0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

MICAL3 Polyclonal Antibody - Protein Information

Name MICAL3

Synonyms KIAA0819, KIAA1364

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. In the absence

of actin, it also functions as a NADPH oxidase producing H₂O₂. Seems to act as Rab effector protein and plays a role in vesicle trafficking. Involved in exocytic vesicles tethering and fusion: the monooxygenase activity is required for this process and implicates RAB8A associated with exocytotic vesicles. Required for cytokinesis. Contributes to stabilization and/or maturation of the intercellular bridge independently of its monooxygenase activity. Promotes recruitment of Rab8 and ERC1 to the intercellular bridge, and together these proteins are proposed to function in timely abscission.

Cellular Location

Cytoplasm. Cytoplasm, cell cortex.
Cytoplasm, cytoskeleton. Nucleus. Midbody
Cytoplasm, cytoskeleton, spindle
Cytoplasm, cytoskeleton, cilium basal body.
Note=Mainly localizes in the nucleus

Tissue Location

Ubiquitous..

MICAL3 Polyclonal Antibody - 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](#)