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Datasheet for ABIN7141993

anti-MICAL1 antibody (AA 806-1067) (HRP)

Overview

Quantity:	100 µL
Target:	MICAL1
Binding Specificity:	AA 806-1067
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MICAL1 antibody is conjugated to HRP
Application:	ELISA

Product Details

Immunogen:	Recombinant Human [F-actin]-methionine sulfoxide oxidase MICAL1 protein (806-1067AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	MICAL1
Alternative Name:	MICAL1 (MICAL1 Products)
Background:	Background: Monooxygenase that promotes depolymerization of F-actin by mediating oxidation of specific methionine residues on actin. Acts by modifying actin subunits through the

Target Details

addition of oxygen to form methionine-sulfoxide, leading to promote actin filament severing and prevent repolymerization (Probable). 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.

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

UniProt: [Q8TDZ2](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.