

MICAL1 (D8K7R) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit IgG	UniProt ID: #Q8TDZ2	Entrez-Gene Id: 64780
Product Usage Information	e	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		MICAL1 (D8K7R) Rabbit mAb recognizes endogenous levels of total MICAL1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val1038 of human MICAL1 protein.				
Background		Molecule interacting with CasL protein 1 (MICAL1) is a Protein-methionine sulfoxide oxidase. MICAL1 can bind directly to F-actin and oxidize specific methionine residues to promote actin filament disassembly (1-3). MICAL1 is an important component of semaphorin signaling cascades that has effects on cell movement, angiogenesis, immunology, diabetes, and cancer (2,4-6). MICAL1 binds to NDR1/2 and antagonizes MST1-induced NDR activation and apoptosis (7).				
Background R	eferences	1. Hung, R.J. et al. (2013) <i>Nat Cell Biol</i> 15, 1445-54. 2. Lee, B.C. et al. (2013) <i>Mol Cell</i> 51, 397-404. 3. Giridharan, S.S. and Caplan, S. (2014) <i>Antioxid Redox Signal</i> 20, 2059-73. 4. Terman, J.R. et al. (2002) <i>Cell</i> 109, 887-900. 5. Aggarwal, P.K. et al. (2015) <i>Diabetes</i> 64, 1743-59. 6. Loria, R. et al. (2015) <i>Oncotarget</i> 6, 2779-93. 7. Zhou, Y. et al. (2011) <i>Mol Cell Biol</i> 31, 3603-15.				
Species Reacti	ivity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human				
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