LIMK1 Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 70	Source: Rabbit	UniProt ID: #P53667	Entrez-Gene Id: 3984	
Product Usage Information	Application Western Blotting			Dilution 1:1000			
		nunoprecipitation		1:50			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		LIMK1 Antibody detects endogenous levels of total LIMK1 protein independent of phosphorylation. The antibody does not cross-react with LIMK2.					
Source / Purificati	carb	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal residues of human LIMK1. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	LIM regu LIMI activ	LIM kinases (LIMK1 and LIMK2) are serine/threonine kinases that have two zinc finger motifs, known as LIM motifs, in their amino-terminal regulatory domains (1). LIM kinases are involved in actin cytoskeletal regulation downstream of Rho-family GTPases, PAKs, and ROCK (2,3). PAK1 and ROCK phosphorylate LIMK1 or LIMK2 at the conserved Thr508 or Thr505 residues in the activation loop, increasing LIMK activity (3-5). Activated LIM kinases inhibit the actin depolymerization activity of cofilin by phosphorylation at the amino-terminal Ser3 residue of cofilin (6,7).					
Background Refe	2. M 3. Ec 4. O 5. Sı 6. Aı	 Okano, I. et al. (1995) J. Biol. Chem. 270, 31321-31330. Maekawa, M. et al. (1999) Science 285, 895-898. Edwards, D. C. et al. (1999) Nat. Cell Biol. 1, 253-259. Ohashi, K. et al. (2000) J. Biol. Chem. 275, 3577-3582. Sumi, T. et al. (2001) J. Biol. Chem. 276, 670-676. Arber, S. et al. (1998) Nature 393, 805-809. Yang, N. et al. (1998) Nature 393, 809-812. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved 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

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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LIMK1 Antibody (#3842) Datasheet Without Images Cell Signaling Technology

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