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Phospho-LIMK1 (Thr508)/LIMK2 (Thr505) Antibody



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Applications: W	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 72	Source/Isotype: Rabbit	UniProt ID: #P53671, #P53667	Entrez-Gene Id: 3985, 3984		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Phospho-LIMK1 (Thr508)/LIMK2 (Thr505) Antibody detects transfected levels of LIMK1 and LIMK2 only when phosphorylated at threonine 508 or 505.						
Species predict based on 100% homology	ted to react sequence	Mouse, Rat						
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr508 of human LIMK1. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		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 Re	eferences	1. Okano, I. et al. (1995) <i>J. Biol. Chem.</i> 270, 31321-31330. 2. Maekawa, M. et al. (1999) <i>Science</i> 285, 895-898. 3. Edwards, D. C. et al. (1999) <i>Nat. Cell Biol.</i> 1, 253-259. 4. Ohashi, K. et al. (2000) <i>J. Biol. Chem.</i> 275, 3577-3582. 5. Sumi, T. et al. (2001) <i>J. Biol. Chem.</i> 276, 670-676. 6. Arber, S. et al. (1998) <i>Nature</i> 393, 805-809. 7. Yang, N. et al. (1998) <i>Nature</i> 393, 809-812.						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	Suffer	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 Ke	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human						
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