ISION 1

975 Phospho-LIMK1 (Thr505) Antibo	L (Thr508)/LIMK2 dy	2		Orders: Support: Web:	B77-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com
3 Trask Lane   Danvers   Massachusetts   01923   USA         For Research Use Only. Not for Use in Diagnostic Procedures.					
Applications: Reactive WB H	-	<b>MW (kDa):</b> 72	Source: Rabbit	<b>UniProt ID:</b> #P53671, #P53667	Entrez-Gene Id: 3985, 3984
Product Usage	Application			Dilution	
Information	Western Blotting			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 / Sensitivity	Phospho-LIMK1 (Thr508)/LIMK2 (Thr505) Antibody detects transfected levels of LIMK1 and LIMK2 only when phosphorylated at threonine 508 or 505.				
Species predicted to react based on 100% sequence homology:	Mouse, Rat				
Source / Purification	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 References	1. Okano, I. et al. (1995) <i>J.</i> 2. Maekawa, M. et al. (1995) 3. Edwards, D. C. et al. (19 4. Ohashi, K. et al. (2000) <i>J</i> 5. Sumi, T. et al. (2001) <i>J. E</i> 6. Arber, S. et al. (1998) <i>Na</i> 7. Yang, N. et al. (1998) <i>Na</i>	9) Science 285, 8 99) Nat. Cell Biol I. Biol. Chem. 275 Biol. Chem. 276, 6 hture 393, 805-80	95-898. . 1, 253-259. 5, 3577-3582. 570-676. 9.		
Species Reactivity	Species reactivity is determi	ned by testing in	at least one appro	ved application (e.g., w	vestern 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				
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>				
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Phospho-LIMK1 (Thr508)/LIMK2 (Thr505) Antibody (#3841) Datasheet Without Images Cell Signaling Techn...

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