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## VINK2 Antibody Image: Cell Signaling Technology Vinter Stress 0rders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com Strask Lane | Danvers | Massachusetts | 01923 | USA

Applications: W	<b>Reactivity:</b> H R Mk	Sensitivity: Transfected Only	<b>MW (kDa):</b> 70	Source/Isotype: Rabbit	<b>UniProt ID:</b> #P53671	Entrez-Gene Id: 3985
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 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		LIMK2 Antibody detects transfected levels of LIMK2. The antibody does not cross-react with LIMK1.				
Species predicted to react based on 100% sequence homology		Mouse				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to carboxy-terminal residues of human LIMK2. 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		<ol> <li>Okano, I. et al. (1995) <i>J. Biol. Chem.</i> 270, 31321-31330.</li> <li>Maekawa, M. et al. (1999) <i>Science</i> 285, 895-898.</li> <li>Edwards, D. C. et al. (1999) <i>Nat. Cell Biol.</i> 1, 253-259.</li> <li>Ohashi, K. et al. (2000) <i>J. Biol. Chem.</i> 275, 3577-3582.</li> <li>Sumi, T. et al. (2001) <i>J. Biol. Chem.</i> 276, 670-676.</li> <li>Arber, S. et al. (1998) <i>Nature</i> 393, 805-809.</li> <li>Yang, N. et al. (1998) <i>Nature</i> 393, 809-812.</li> </ol>				
Species Reactivi	ity	Species reactivity is de	termined by testing	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				
Cross-Reactivity Key		H: Human R: Rat Mk: Monkey				
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