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e at -20C	Phospho-VASP (Ser157) Antibody	T C	Cell Signaling		
Store a		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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For Research Use Onl	V Not for Use in	Diagnostic	Procedures
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Applications: WB	<b>Reactivity:</b> H M R Mk GP	Sensitivity: Endogenous	<b>MW (kDa):</b> 50	Source: Rabbit	UniProt ID: #P50552	Entrez-Gene Id: 7408	
Product Usage Information		plication stern 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 / Sens		Phospho-VASP (Ser157) Antibody detects endogenous levels of VASP only when phosphorylated at serine 157. The antibody may cross-react with the phosphorylated VASP homologue Mena.					
Source / Purificat	to re	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser157 of human VASP. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	and VAS trans activ iden site nega	Vasodilator-stimulated phosphoprotein (VASP) was originally characterized as a substrate of both cGMP- and cAMP-dependent kinases (PKG and PKA, or cGPK and cAPK, respectively) (1). It is now believed that VASP belongs to the Ena/VASP family of adaptor proteins linking the cytoskeletal system to the signal transduction pathways and that it functions in cytoskeletal organization, fibroblast migration, platelet activation, and axon guidance (2,3). Three phosphorylation sites, Ser157, Ser239, and Thr278, have been identified. Ser239 is the major PKG phosphorylation site, while Ser157 is the major PKA phosphorylation site (4). Evidence suggests that VASP phosphorylation reduces its association with actin and has a negative effect on actin polymerization (5). Phosphorylation at Ser239 of VASP is a useful marker for monitoring PKG activation and signaling (6,7).					
Background Refe	2. Ba 3. Mi 4. Sr 5. Ha 6. Ou	<ol> <li>Butt, E. et al. (1994) J Biol Chem 269, 14509-17.</li> <li>Ball, L.J. et al. (2000) EMBO J 19, 4903-14.</li> <li>Machesky, L.M. (2000) Cell 101, 685-8.</li> <li>Smolenski, A. et al. (1998) J Biol Chem 273, 20029-35.</li> <li>Harbeck, B. et al. (2000) J Biol Chem 275, 30817-25.</li> <li>Oelze, M. et al. (2000) Circ Res 87, 999-1005.</li> <li>Lawrence, D.W. and Pryzwansky, K.B. (2001) J Immunol 166, 5550-6.</li> </ol>					
Species Reactivit	y Speci	ies reactivity is det	ermined by testing i	n at least one appro	oved application (e.g., we	estern blot).	
Western Blot Buf		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	X: Xe	<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-VASP (Ser157) Antibody (#3111) Datasheet Without Images Cell Signaling Technology

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