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Phospho-VASP (Ser157) (D1C8O) Rabbit



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #P50552	Entrez-Gene Id: 7408
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-VASP (Ser157) Rabbit mAb recognizes endogenous levels of VASP protein only when phosphorylated at Ser157.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser157 of human VASP protein.				
Background		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 References		 Butt, E. et al. (1994) J Biol Chem 269, 14509-17. Ball, L.J. et al. (2000) EMBO J 19, 4903-14. Machesky, L.M. (2000) Cell 101, 685-8. Smolenski, A. et al. (1998) J Biol Chem 273, 20029-35. Harbeck, B. et al. (2000) J Biol Chem 275, 30817-25. Oelze, M. et al. (2000) Circ Res 87, 999-1005. Lawrence, D.W. and Pryzwansky, K.B. (2001) J Immunol 166, 5550-6. 				

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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat

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