VASP (9A2) Rabbit mAb



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Applications:Reactivity:W, IP, IF-F, IF-ICH M R Hm Mk B	Sensitivity: Endogenous	MW (kDa): 46, 50	Source/Isotype: Rabbit	UniProt ID: #P50552	Entrez-Gene Id: 7408
Product Usage Information	Application Western Blotting Immunoprecipitation Immunofluorescence Immunofluorescence	` '	stry)		Dilution 1:1000 1:500 1:200 1:400
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	VASP (9A2) Rabbit mAb detects endogenous levels of total VASP protein.				
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human and mouse VASP.				
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	1. Butt, E. et al. (1994) 2. Ball, L.J. et al. (2000) 3. Machesky, L.M. (200 4. Smolenski, A. et al. (5. Harbeck, B. et al. (20 6. Oelze, M. et al. (200 7. Lawrence, D.W. and	EMBO J 19, 4903-1- 0) Cell 101, 685-8. 1998) J Biol Chem 27: 000) J Biol Chem 27: 0) Circ Res 87, 999-	1. 73, 20029-35. 5, 30817-25.	0-6.	

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 IF-F: Immunofluorescence (Frozen) IF-IC:

Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey B: Bovine

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