#3114 Store at -20C

Phospho-VASP (Ser239) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 48, 50	Source: Rabbit	UniProt ID: #P50552	Entrez-Gene Id: 7408
Product Usage Information	•	pplication estern Blotting		Dilution 1:1000		
Storage	Sup	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-VASP (Ser239) Antibody detects endogenous levels of VASP only when phosphorylated at serine 239. The antibody does not cross-react with phosphorylated VASP homologues, such as Mena.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser239 of human VASP. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	and VAS tran acti ider site neg	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	1. Butt, E. et al. (1994) <i>J Biol Chem</i> 269, 14509-17. 2. Ball, L.J. et al. (2000) <i>EMBO J</i> 19, 4903-14. 3. Machesky, L.M. (2000) <i>Cell</i> 101, 685-8. 4. Smolenski, A. et al. (1998) <i>J Biol Chem</i> 273, 20029-35. 5. Harbeck, B. et al. (2000) <i>J Biol Chem</i> 275, 30817-25. 6. Oelze, M. et al. (2000) <i>Circ Res</i> 87, 999-1005.					

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

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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7. Lawrence, D.W. and Pryzwansky, K.B. (2001) J Immunol 166, 5550-6.

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Phospho-VASP (Ser239) Antibody (#3114) Datasheet Without Images Cell Signaling Technology

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