anti-VASP

Cat #: HM1389
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND
Vasodilator-stimulated phosphoprotein (VASP) is a member of the Ena-VASP protein family. The family members contain an EHV1 N-terminal domain that binds proteins containing E/DFPPPPXD/E motifs and targets Ena-VASP proteins to focal adhesions. The mid-region of the protein contains a proline-rich domain that binds SH3 and WW domain-containing proteins. The C-terminal EVH2 domain mediates tetramerization and binds both G and F actin. VASP is associated with filamentous actin formation and likely plays a widespread role in cell adhesion and motility. VASP is a substrate of cAMP and cGMP dependent kinases, VASP is phosphorylated on a regulatory serine residue 157 and localizes to focal adhesions, microfilaments and highly active regions of the plasma membrane. VASP may also be involved in the intracellular signaling pathways that regulate integrin-extracellular matrix interactions.

SPECIFICITY
This antibody specifically reacts with VASP of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitiation and immunohistochemistry.

Molecular Weight of VASP: 46–50 kDa

Western blotting positive controls: HeLa cell lysate.

IMMUNOGEN
A synthetic peptide derived from N-terminus of human VASP protein.

STORAGE
This antibody is stable for 12 months when stored at 2-8° C.

REFERENCES
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3. Reinhard, M., Jouvenal, K., Tripier, D., and Walter, U. 1995. Identification, purification and characterization of a zyxin-related protein that binds the focal adhesion and microfilament protein VASP (vasodilator-stimulated hosphoprotein). Proc. Natl. Acad. Sci. USA 92: 7956-7960.
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5. Grosse,R., Copeland,J.W., Newsome,T.P., Way,M. and Treisman,R. (2003) A role for VASP in RhoA-Diaphanous signalling to actin dynamics and SRF activity. EMBO J. 22, 3050-3061.
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