Polyclonal Antibody Catalog #: APRab05607



Summary

Production Name VASP (phospho Ser157) Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA

Reactivity Human, Mouse, Rat

Performance

Conjugation Unconjugated

Modification Phospho Antibody

Isotype IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw $\bf Storage$

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name VASP

Alternative Names VASP; Vasodilator-stimulated phosphoprotein; VASP

Gene ID 7408.0

P50552.Synthesized phospho-peptide around the phosphorylation site of human VASP SwissProt ID

(phospho Ser157)

Application

Dilution Ratio WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:5000, IF-P/IF-F/ICC/IF 1:50-200

39

Molecular Weight

46kDa

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Background

Vasodilator-stimulated phosphoprotein (VASP) is a member of the Ena-VASP protein family. Ena-VASP family members contain an EHV1 N-terminal domain that binds proteins containing E/DFPPPPXD/E motifs and targets Ena-VASP proteins to focal adhesions. In the mid-region of the protein, family members have a proline-rich domain that binds SH3 and WW domain-containing proteins. Their 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 may also be involved in the intracellular signaling pathways that regulate integrin-extracellular matrix interactions. VASP is regulated by the cyclic nucleotide-dependent kinases PKA and PKG. [provided by RefSeq, Jul 2008],domain:The EVH2 domain is comprised of 3 regions. Block A is a thymosin-like domain required for G-actin binding. The KLKR motif within this block is essential for the G-actin binding and for actin polymerization. Block B is required for F-actin binding and subcellular location, and Block C for tetramerization.,domain:The WH1 domain mediates interaction with XIRP1.,function:Ena/VASP proteins are actin-associated proteins involved in a range of processes dependent on cytoskeleton remodeling and cell polarity such as axon guidance and lamellipodial and filopodial dynamics in migrating cells. VASP promotes actin nucleation and increases the rate of actin polymerization in the presence of capping protein. Plays a role in actin-based activity of Listeria monocytogenes in platelets., PTM: Major substrate for cAMP-dependent (PKA) and cGMP-dependent protein kinase (PKG) in platelets. The preferred site for PKA is Ser-157, the preferred site for PKG, Ser-239. In ADP-activated platelets, phosphorylation by PKA or PKG on Ser-157 leads to fibrinogen receptor inhibition. Phosphorylation on Thr-278 requires prior phosphorylation on Ser-157 and Ser-239. In response to phorbol ester (PMA) stimulation, phosphorylated by PKC/PRKCA. In response to thrombin, phosphorylated by both PKC and ROCK1., similarity: Belongs to the Ena/VASP family., similarity: Contains 1 WH1 domain., subcellular location: Targeted to stress fibers and focal adhesions through interaction with a number of proteins including MRL family members. Localizes to the plasma membrane in protruding lamellipodia and filopodial tips. Stimulation by thrombin or PMA, also translocates VASP to focal adhesions., subunit: Homotetramer. Interacts with PFN1, PFN2, LPP, ACTN1 and ACTG1. Interacts, via the EVH1, with the Prorich regions of ZYX. This interaction is important for targeting to focal adhesions and the formation of actin-rich structures at the apical surface of cells. Interacts, via the EVH1 domain, with the Pro-rich domain of Listeria monocytogenes actA. Interacts with APBB1IP. Interacts, via the Pro-rich domain, with the C-terminal SH3 domain of DNMBP., tissue specificity: Highly expressed in platelets.,

Research Area

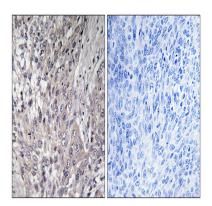
Focal adhesion; Fc gamma R-mediated phagocytosis; Leukocyte transendothelial migration;

Image Data

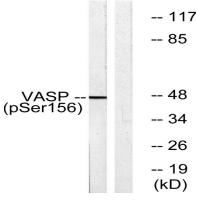
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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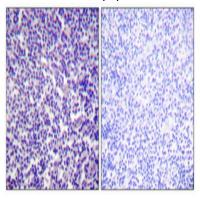




Immunohistochemistry analysis of paraffin-embedded human breast cancer, using VASP (Phospho-Ser157) Antibody. The picture on the right is blocked with the VASP (Phospho-Ser157) peptide.



Western blot analysis of VASP (Phospho-Ser157) Antibody. The lane on the right is blocked with the VASP (Phospho-Ser157) peptide.



Immunohistochemical analysis of paraffin-embedded Human tonsil. Antibody was diluted at 1:100 (4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

Note

For research use only.

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Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838