

## VASP polyclonal antibody

Catalog # PAB5624 Size 100 ug

### Applications



#### Western Blot (Cell lysate)

Western blot analysis of the extracts from NIH/3T3 cells untreated or treated with forskolin (40 uM, 30 min) using VASP polyclonal antibody (Cat # PAB5624).

Specification	
Product Description	Rabbit polyclonal antibody raised against synthetic peptide of VASP.
Immunogen	A synthetic peptide corresponding to residues surrounding S157 of human VASP.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

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#### **Product Information**

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Gene Info — VASP	
Entrez GenelD	7408
Gene Name	VASP
Gene Alias	-
Gene Description	vasodilator-stimulated phosphoprotein
Omim ID	<u>601703</u>
Gene Ontology	Hyperlink
Gene Summary	Vasodilator-stimulated phosphoprotein (VASP) is a member of the Ena-VASP protein family. En a-VASP family members contain an EHV1 N-terminal domain that binds proteins containing E/D FPPPXD/E motifs and targets Ena-VASP proteins to focal adhesions. In the mid-region of the p rotein, family members have a proline-rich domain that binds SH3 and WW domain-containing pr oteins. Their C-terminal EVH2 domain mediates tetramerization and binds both G and F actin. V ASP is associated with filamentous actin formation and likely plays a widespread role in cell adhe sion and motility. VASP may also be involved in the intracellular signaling pathways that regulate i ntegrin-extracellular matrix interactions. VASP is regulated by the cyclic nucleotide-dependent kin ases PKA and PKG. [provided by RefSeq
Other Designations	-

#### Publication Reference

• Structural basis of filopodia formation induced by the IRSp53/MIM homology domain of human IRSp53.

Millard TH, Bompard G, Heung MY, Dafforn TR, Scott DJ, Machesky LM, Futterer K.

The EMBO Journal 2005 Jan; 24(2):240.



The VASP tetramerization domain is a right-handed coiled coil based on a 15-residue repeat.

Kuhnel K, Jarchau T, Wolf E, Schlichting I, Walter U, Wittinghofer A, Strelkov SV. PNAS 2004 Nov; 101(49):17027.

# • A proline-rich protein binds to the localization element of Xenopus Vg1 mRNA and to ligands involved in actin polymerization.

Zhao WM, Jiang C, Kroll TT, Huber PW.

The EMBO Journal 2001 May; 20(9):2315.

#### Pathway

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