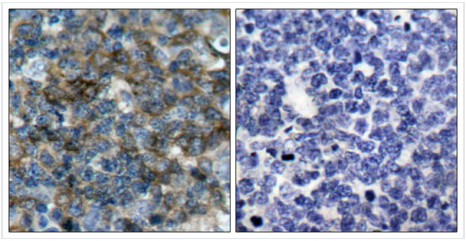
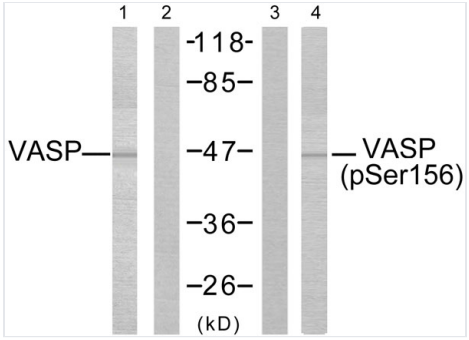
VASP Antibody

PRODUCT OVERVIEW

Product Name	VASP, Antibody
Full Product Name	VASP (Phospho-Ser157) Antibody
Product Gene Name	anti-VASP antibody
Product Synonym Names	VASP; Vasodilator-stimulated phosphoprotein
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatogramphy using non-phosphopeptide corresponding to the phosphorylation site.
Specificity	VASP (phospho-Ser157) antibody detects endogenous levels of VASP only when phosphorylated at serine 157.
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	39,830 Da
OMIM	601703
3D Structure	ModBase 3D Structure for P50552
Immunogen	The antiserum was produced against synthesized phosphopeptide derived from human VASP around the phosphorylation site of serine 157 (R-V-SP-N-A).
All Sites	Human: Ser157 or Ser156 Mouse: Ser152 Rat: Ser154
Product Categories/Family for anti-VASP antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-VASP antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-VASP antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 ELISA: 1:4000
Related Product Information for anti-VASP antibody	MBS8500528 is an antibody targeting VASP. Also known as VASP (Phospho-Ser157) Antibody. Reactive in Human, Mouse, Rat.
Product References and Citations for anti-VASP antibody	Zhao WM, et al. (2001) EMBO J 20(9): 2315-2325. Millard TH, et al. (2005) EMBO J 24(2): 240-250. Kühnel K, et al. (2004) Proc Natl Acad Sci U S A 101(49): 17027-17032. Haffner C, et al. (1995) EMBO J 14(1): 19-27. Ramesh N, et al. (1997) Proc Natl Acad Sci U S A 94(26): 14671-14676.
Other Notes	Small volumes of anti-VASP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-VASP antibody
P-Peptide-+ Immunohistochemical analysis of paraffin-embedded human tonsil tissue using VASP (phospho-Ser157) antibody.



Western Blot (WB) of anti-VASP antibody
Western blot analysis of extracts from NIH/3T3 cells untreated or treated with forskolin (40muM, 30min), using VASP (Ab-157) antibody (Line 1 and 2) and VASP (phospho-Ser157) antibody (Line 3 and 4).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VASP. It may not necessarily be applicable to this product.

NCBI GI #	4507869
NCBI GeneID	7408
NCBI Accession #	NP_003361.1
UniProt Primary Accession #	P50552
UniProt Secondary Accession #	Q6PIZ1; Q93035; B2RBT9
UniProt Related Accession #	P50552
GenBank Nucleotide #	NM_003370.3
NCBI Official Full Name	vasodilator-stimulated phosphoprotein
NCBI Official Synonym Full Names	vasodilator stimulated phosphoprotein
NCBI Official Symbol	VASP
UniProt Protein Name	Vasodilator-stimulated phosphoprotein
Protein Family	Protein
UniProt Gene Name	VASP
UniProt Synonym Gene Names	VASP
NCBI Protein Information	vasodilator-stimulated phosphoprotein
NCBI Summary for VASP	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]
UniProt Comments for VASP	Ena/VASP proteins are actin-associated proteins involved in a range of processes dependent on cytoskeleton remodeling and cell polarity such as axon guidance, lamellipodial and filopodial dynamics, platelet activation and cell migration. VASP promotes actin filament elongation. It protects the barbed end of growing actin filaments against capping and increases the rate of actin polymerization in the presence of capping protein. VASP stimulates actin filament elongation by promoting the transfer of profilin-bound actin monomers onto the barbed end of growing actin filaments. Plays a role in actin-based mobility of Listeria monocytogenes in host cells. Regulates actin dynamics in platelets and plays an important role in regulating platelet aggregation.

Research Articles on VASP	**1.** Our results reveal a dual role of VASP in endothelial permeability. In addition to its well-documented function in barrier integrity, we show that S-nitrosylation of VASP contributes to the onset of endothelial permeability.
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