VASP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	VASP, Polyclonal Antibody
Full Product Name	VASP (human) polyclonal antibody
Product Gene Name	anti-VASP antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human Does not cross-react with mouse or rat VASP
Form/Format	Liquid. Contains 0.02% sodium azide
Specificity	Recognizes unphosphorylated as well as phosphorylated (Ser157) VASP
Preparation and Storage	For long term storage, store at -20 degree C. Avoid freeze/thaw cycles Shipping: Shipped on Blue Ice
Molecular Weight	39,830 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (46010688..46030241). Location: 19q13.32
OMIM	601703
3D Structure	ModBase 3D Structure for P50552
Immunogen	Recombinant human VASP (vasodilator stimulated phosphoprotein) fused to a His-tag
Product Categories/Family for anti-VASP antibody	Cellular Analysis; Cell Signaling
Applications Tested/Suitable for anti-VASP antibody	Immunofluorescence (IF), Western Blot (WB)
Related Product Information for anti-VASP antibody	VASP (vasodilator stimulated phosphoprotein) is a proline-rich protein substrate of cAMP- and cGMP-dependent protein kinases. Phosphorylation of VASP at Ser-157 causes a mobility shift in SDS gel electrophoresis from 46 to 50 kDa, which has been used as a convenient marker to monitor cyclic nucleotide-dependent protein kinase activity. VASP is the founding member of the Ena-VASP protein family, comprising the Drosophila protein Enabled (Ena), its mouse homologue Mena (mammalian Enabled), and mouse EVL (Ena-VASP-like protein). With these proteins VASP shares a conserved overall domain organization: a) the conserved N-terminal Ena-VASP homology domain 1 (EVH1), which mediates binding to a proline-rich motif b) a more divergent proline-rich central domain (which is responsible for profilin binding) c) a conserved C-terminal EVH2 domain. VASP is expressed in a variety of mammalian cell types and tissues. In cultured cells, VASP is associated with focal adhesions, cell-cell contacts, microfilaments, and highly dynamic membrane regions. From in vitro binding data VASP has been suggested to link profilin to zyxin, vinculin, and the Listeria spp. surface protein ActA, respectively. Functional evidence indicates that VASP is a crucial factor involved in the enhancement of actin filament formation and the actin-dependent motility of intracellular bacterial pathogens.
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.
Searchable Terms for VASP purchase	MBS566128 is an antibody targeting VASP. Also known as VASP (human) polyclonal antibody. Reactive in Human Does not cross-react with mouse or rat VASP. Host: Rabbit.

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
UniProt Entry Name	VASP_HUMAN
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	VASP: vasodilator-stimulated phosphoprotein. Actin- and profilin-binding microfilament-associated protein. The phosphorylation of VASP is dynamically regulated by cellular adhesion to extracellular matrix. Protein type: Motility/polarity/chemotaxis; Cytoskeletal Chromosomal Location of Human Ortholog: 19q13.32 Cellular Component: filopodium membrane; focal adhesion; tight junction; cytoplasm; plasma membrane; cytosol; actin cytoskeleton Molecular Function: protein binding; actin binding; SH3 domain binding; profilin binding Biological Process: axon guidance; positive regulation of actin filament polymerization; actin polymerization and/or depolymerization; neural tube closure; T cell receptor signaling pathway; protein homotetramerization
Research Articles on VASP	**1.** Active proteases in nephrotic plasma lead to a podocin-dependent phosphorylation of VASP in podocytes via protease activated receptor-1.
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