



VASP (phospho Ser157) Monoclonal Antibody

Catalog No	BYmab-03025
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB
Gene Name	VASP
Protein Name	Vasodilator-stimulated phosphoprotein
lmmunogen	The antiserum was produced against synthesized peptide derived from human VASP around the phosphorylation site of Ser157. AA range:124-173
Specificity	Phospho-VASP (S157) Monoclonal Antibody detects endogenous levels of VASP protein only when phosphorylated at S157.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	VASP; Vasodilator-stimulated phosphoprotein; VASP
Observed Band	46 50kD
Cell Pathway	Cytoplasm. Cytoplasm, cytoskeleton. Cell junction, focal adhesion. Cell junction, tight junction. Cell projection, lamellipodium membrane. Cell projection, filopodium membrane. 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. Localized along the sides of actin filaments throughout the peripheral cytoplasm under basal conditions. In pre-apoptotic cells, colocalizes with MEFV in large specks (pyroptosomes).
Tissue Specificity	Highly expressed in platelets.
Function	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
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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 lamelli	podial
and filopodial dynamics in migrating cells. VASP promotes actin nucleation	
increases the rate of actin polymerization in the presence of capping protein	١.
Plays a role in actin-based activity of Listeria monocytogenes in	
platelets.,PTM:Major substrate for cAMP-dependent (PKA) and cGMP-depe	endent
protein kinase (PKG) in platelets. The preferred	

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/DFPPPXD/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],

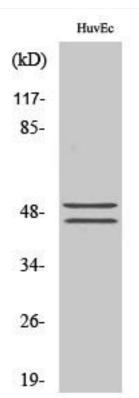
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using VASP (phospho Ser157) Monoclonal Antibody

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