

Rabbit VASP Polyclonal Antibody | anti-VASP antibody

VASP (Thr-278), phospho-specific Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71729	Rabbit	Human, Rat, Mouse	Immunocytochemistry, ELISA, Western Blot

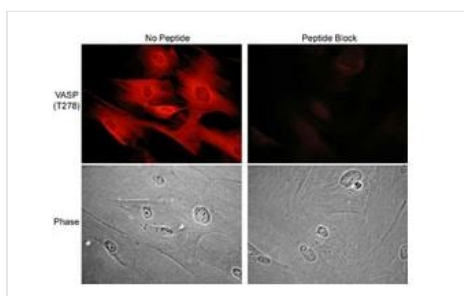
PRODUCT SYNONYMS

VASP; Polyclonal Antibody; VASP (Thr-278); phospho-specific Antibody; phospho-specific; VASP Thr-278; anti-VASP antibody

PRODUCT SPECIFICATIONS

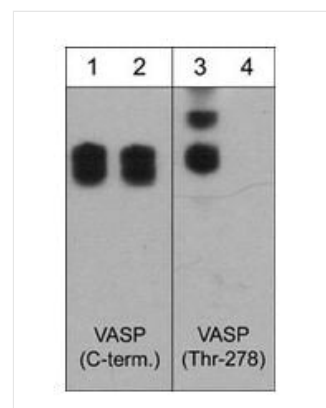
Host	Rabbit
Reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Specificity	This antibody was affinity purified using phospho-VASP (Thr-278) peptide. The purified antibody detects a 50kDa* band corresponding to VASP in Western blots of human A431 and HeLa cells, as well as mouse C2C12 cells that have been treated with calyculin A.
Form/Format	Rabbit polyclonal, affinity-purified antibody is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-VASP antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Phospho-VASP (Thr-278) synthetic peptide (coupled to carrier protein) corresponding to amino acids surrounding threonine 278 in human VASP. This sequence has significant homology to the conserved site in rat and mouse VASP, but is not conserved in mena or EVL proteins.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of VASP phosphorylation in rabbit spleen fibroblasts treated with Calyculin A. The cells were labeled with rabbit polyclonal VASP (Thr-278) antibody, then detected using appropriate secondary antibodies conjugated to Cy3. The antibody was used in the absence (top left) or presence (top right) of blocking peptide (VX2785). Corresponding phase images are shown bottom left and right.



WB (Western Blot)

Western blot image of human A431 cells stimulated with calyculin A (100nM) for 30 min. The blots were untreated (lanes 1 & 3) or treated with lambda phosphatase (lanes 2 & 4), then probed with mouse monoclonal VASP (C-term.) antibody (lanes 1 & 2) or rabbit polyclonal VASP (Thr-278) phospho-specific antibody (lanes 3 & 4).

ADDITIONAL INFORMATION

Related Product Information for anti-VASP antibody	Actin filament tethering and bundling are important mechanisms involved in actin superstructure assembly. The ENA/VASP family includes VASP, mena, and Ena-Vasp-like (EVL). These multidomain proteins localize to the leading edge of filopodia where they associate with AFs, interact with profilin, and compete with capping proteins at the barbed end of AFs. Artificial relocation of VASP from the plasma membrane to mitochondrial membranes inhibits filopodial formation and axon branching, while deletion of all three ENA/VASP proteins produces defects in cortical axon-tract formation. Regulation of VASP protein activity occurs through phosphorylation at Ser-157, Ser-239, and Thr-278. AMPK phosphorylates Thr-278, leading to impaired actin stress fiber assembly and changes in cell morphology.
References	Applewhite, D.A. et al. (2007). Mol Biol Cell. 18(7):2579. Blume, C. et al. (2007) J Biol Chem. 282(7):4601. Krause, M. et al. (2003) Annu Rev Cell Dev Biol. 19: 541.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507869
NCBI GeneID	7408
NCBI Accession #	NP_003361.1
NCBI GenBank Nucleotide #	NM_003370.3
UniProt Accession #	P50552; Q6PIZ1; Q93035; B2RBT9
Molecular Weight	39,830 Da
NCBI Official Full Name	vasodilator-stimulated phosphoprotein
NCBI Official Synonym Full Names	vasodilator-stimulated phosphoprotein
NCBI Official Symbol	VASP
NCBI Protein Information	vasodilator-stimulated phosphoprotein
UniProt Protein Name	Vasodilator-stimulated phosphoprotein
UniProt Gene Name	VASP
UniProt Synonym Gene Names	VASP
UniProt Entry Name	VASP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/vasp-antibody-immunocytochemistry-western-blot-elisa/71729>