

## Mouse anti-Human VASP Monoclonal Antibody | anti-VASP antibody

VASP (C-terminal region) Antibody

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                             |
|-----------|-------|------------|------------------------------------------|
| AAA71724  | Mouse | Human      | Immunocytochemistry, ELISA, Western Blot |

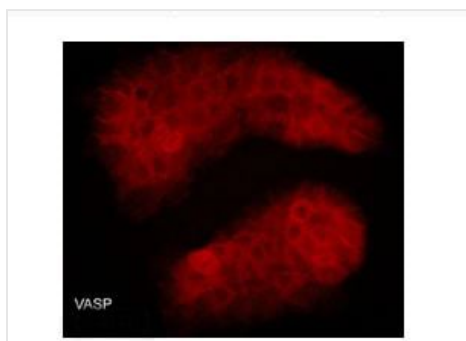
### PRODUCT SYNONYMS

VASP; Monoclonal Antibody; VASP (C-terminal region) Antibody; VASP (C-terminal region); anti-VASP antibody

### PRODUCT SPECIFICATIONS

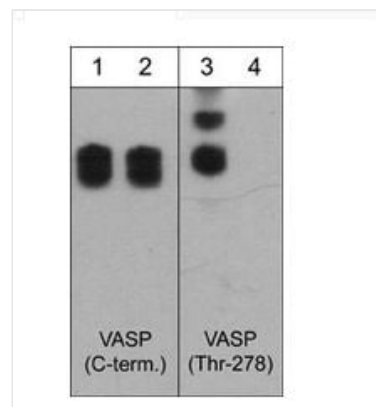
|                                                |                                                                                                                                                                    |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                              |
| Reactivity                                     | Human                                                                                                                                                              |
| Clonality                                      | Monoclonal                                                                                                                                                         |
| Isotype                                        | IgG1                                                                                                                                                               |
| Clone Number                                   | M277                                                                                                                                                               |
| Specificity                                    | This antibody detects 46 and 50kDa* proteins corresponding to the apparent molecular mass of VASP on SDS-PAGE immunoblots of human A431, HeLa, and HUVEC.          |
| Purity/Purification                            | Protein A chromatography                                                                                                                                           |
| Form/Format                                    | Mouse monoclonal antibody purified with protein A chromatography 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                                      | Clone (M277) was generated from a recombinant protein that includes amino acids from the C-terminal region of human VASP.                                          |
| Preparation and Storage                        | Store at -20 degree C. Stable for 1 year.                                                                                                                          |

### IMAGES



#### ICC (Immunocytochemistry)

Immunocytochemical labeling of VASP in aldehyde-fixed and NP-40-permeabilized A431 cells. The cells were labeled with mouse monoclonal VASP (C-terminal region) antibody, then the antibody was detected using appropriate secondary antibody conjugated to DyLight 594.



#### 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.<br>Blume, C. et al. (2007) J Biol Chem. 282(7):4601.<br>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/monoclonal/vasp-antibody-clone-m277-immunocytochemistry-western-blot-elisa/71724>