

Product datasheet for **TA389230**

VASP Mouse Antibody [Clone ID: M277]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M277
Applications:	ICC, WB
Recommended Dilution:	WB: 1:1000 ICC: 1:50
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone (M277) was generated from a recombinant protein that includes amino acids from the C-terminal region of human VASP.
Specificity:	This antibody detects 46 and 50 kDa* proteins corresponding to the apparent molecular mass of VASP on SDS-PAGE immunoblots of human A431, HeLa, and HUVEC.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Concentration:	lot specific
Purification:	Protein A Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	46/50
Database Link:	P50552



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Background:

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.

Note:

Protein G purified tissue culture supernatant.