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Anti-VASP (Thr-278), Phosphospecific Antibody

Catalog # AN2007

Specification

Anti-VASP (Thr-278), Phosphospecific Antibody - Product Information

Application	**WB**
Primary Accession	P50552
Reactivity	**Bovine**
Host	**Rabbit**
Clonality	**Rabbit Polyclonal**
Isotype	**IgG**
Calculated MW	**39830**

Anti-VASP (Thr-278), Phosphospecific Antibody - Additional Information

Gene ID	**7408**

Other Names
vasodilator-stimulated phosphoprotein

Dilution
WB~~1:1000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Anti-VASP (Thr-278), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

Anti-VASP (Thr-278), Phosphospecific Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-VASP (Thr-278), Phosphospecific Antibody - Images

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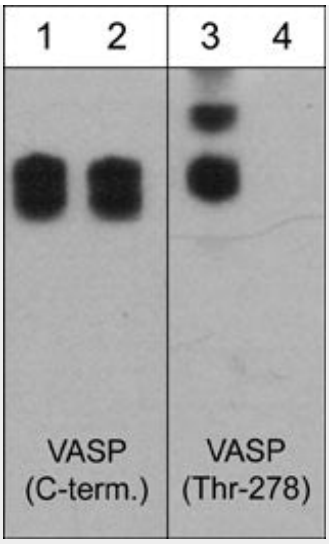
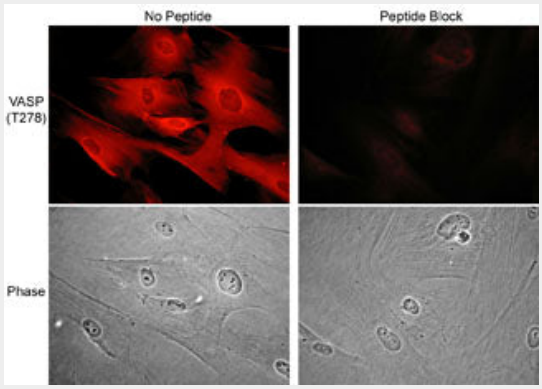


Western blot image of human A431 cells stimulated with calyculin A (100 nM) for 30 min. The blots were untreated (lanes 1 & 3) or treated with lambda phosphatase (lanes 2 & 4), then probed with mouse monoclonal VASP (C-term.) antibody (lanes 1 & 2) or rabbit polyclonal VASP (Thr-278) phospho-specific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



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.

Anti-VASP (Thr-278), Phosphospecific Antibody - 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 relocalization 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.