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VASP Antibody (clone 4D6)
Mouse Monoclonal Antibody
Catalog # ALS16848

Specification

VASP Antibody (clone 4D6) - Product Information

Application	**IHC, IF, WB, FC**
Primary Accession	P50552
Other Accession	7408
Reactivity	**Human, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**39830**

VASP Antibody (clone 4D6) - Additional Information

Gene ID 7408

Other Names
VASP

Target/Specificity
Human VASP

Reconstitution & Storage
PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide. Store at -20°C. Minimize freezing and thawing.

Precautions
VASP Antibody (clone 4D6) is for research use only and not for use in diagnostic or therapeutic procedures.

VASP Antibody (clone 4D6) - Protein Information

Name VASP

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, lamellipodial and filopodial dynamics, platelet activation and cell migration. VASP promotes actin filament elongation. It protects the barbed end of growing actin filaments against capping and increases the rate of actin polymerization in the presence of capping protein. VASP stimulates actin filament elongation by promoting the transfer of profilin-bound actin monomers onto the barbed end of growing actin filaments. Plays a role in actin-based mobility of Listeria monocytogenes in host cells. Regulates actin dynamics in platelets and plays an important role in regulating platelet aggregation.

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton. Cell junction, focal adhesion. Cell junction, tight junction Cell projection, lamellipodium membrane. Cell projection, filopodium membrane. Note=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 Location
Highly expressed in platelets.

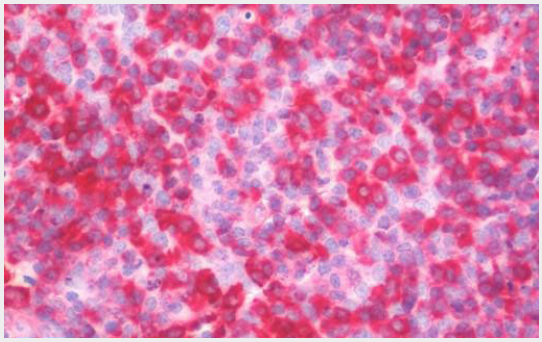
Volume
50 µl

VASP Antibody (clone 4D6) - Protocols

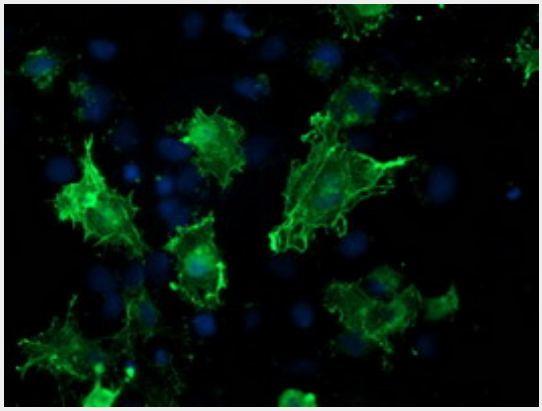
Provided below are standard protocols that you may find useful for product applications.

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

VASP Antibody (clone 4D6) - Images



Anti-VASP antibody IHC staining of human tonsil.



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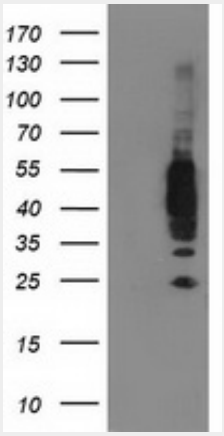
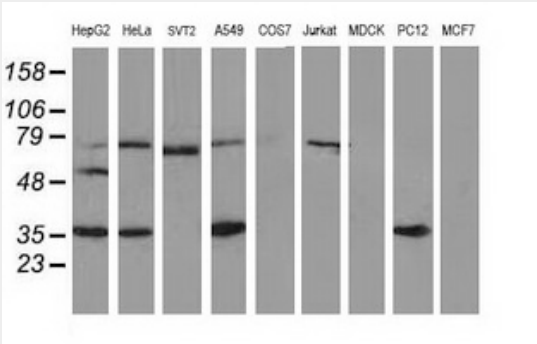
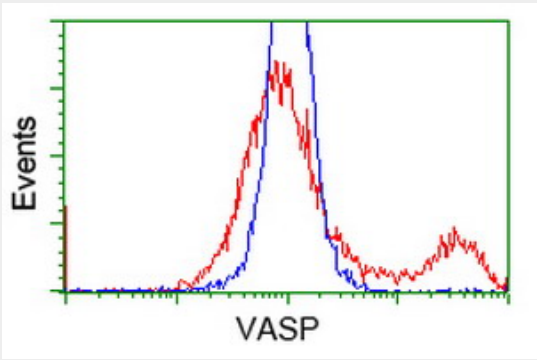
Anti-VASP mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY VASP...



Western blot of extracts (35 ug) from 9 different cell lines by using anti-VASP monoclonal antibody.



HEK293T cells transfected with either overexpress plasmid (Red) or empty vector control plasmid...

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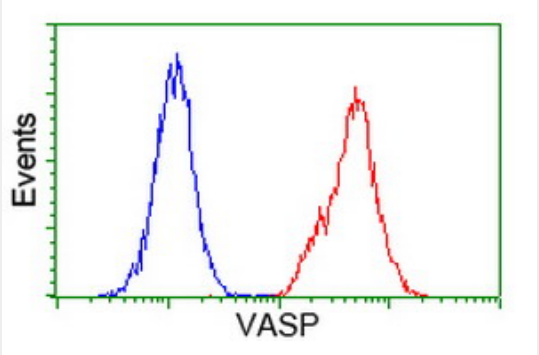
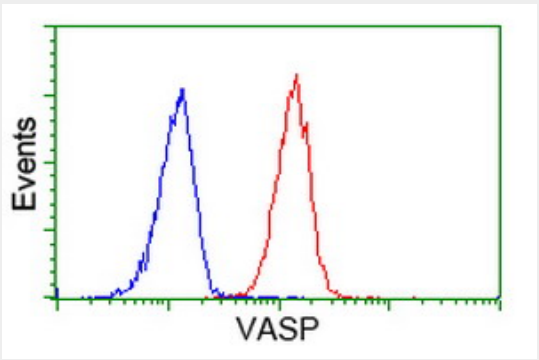


Flow cytometry of Jurkat cells, using anti-VASP antibody (Red), compared to a nonspecific...



Flow cytometry of HeLa cells, using anti-VASP antibody (Red), compared to a nonspecific negative...

VASP Antibody (clone 4D6) - Background

Ena/VASP proteins are actin-associated proteins involved in a range of processes dependent on cytoskeleton remodeling and cell polarity such as axon guidance, lamellipodial and filopodial dynamics, platelet activation and cell migration. VASP promotes actin filament elongation. It protects the barbed end of growing actin filaments against capping and increases the rate of actin polymerization in the presence of capping protein. VASP stimulates actin filament elongation by promoting the transfer of profilin- bound actin monomers onto the barbed end of growing actin filaments. Plays a role in actin-based mobility of Listeria monocytogenes in host cells. Regulates actin dynamics in platelets and plays an important role in regulating platelet aggregation.

VASP Antibody (clone 4D6) - References

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