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KD-Validated Anti-Vasodilator stimulated phosphoprotein Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1470

Specification

KD-Validated Anti-Vasodilator stimulated phosphoprotein Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P50552
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 40 kDa , observed, 46 kDa KDa**
Gene Name	**VASP**
Aliases	**VASP; Vasodilator Stimulated Phosphoprotein; Vasodilator-Stimulated Phosphoprotein**
Immunogen	**A synthesized peptide derived from human VASP**

KD-Validated Anti-Vasodilator stimulated phosphoprotein Rabbit Monoclonal Antibody - Additional Information

Gene ID **7408**

Other Names
Vasodilator-stimulated phosphoprotein, VASP, VASP

KD-Validated Anti-Vasodilator stimulated phosphoprotein Rabbit Monoclonal Antibody - 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)

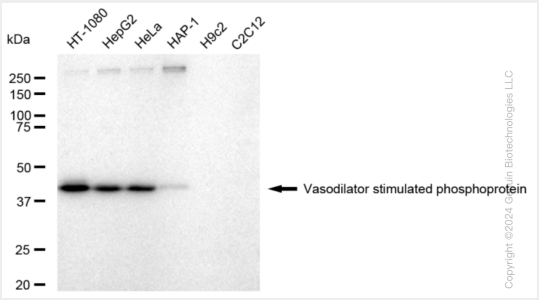
Tissue Location
Highly expressed in platelets.

KD-Validated Anti-Vasodilator stimulated phosphoprotein Rabbit Monoclonal Antibody - Protocols

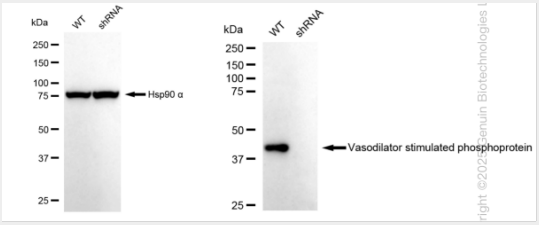
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-Vasodilator stimulated phosphoprotein Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Vasodilator stimulated phosphoprotein antibody (Cat#AGI1470). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Vasodilator stimulated phosphoprotein antibody (Cat#AGI1470, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Vasodilator stimulated phosphoprotein antibody (Cat#AGI1470). Vasodilator stimulated phosphoprotein expression in wild type (WT) and Vasodilator stimulated phosphoprotein (VASP) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Vasodilator stimulated phosphoprotein antibody (Cat#AGI1470, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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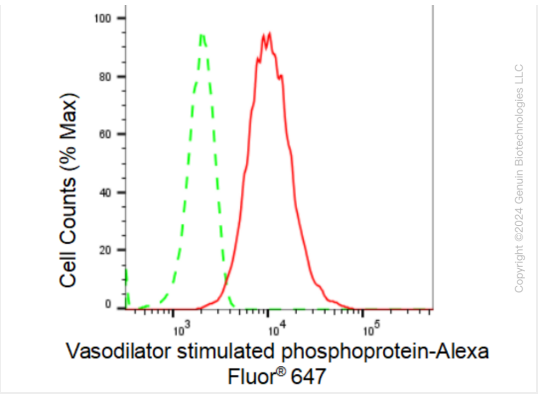
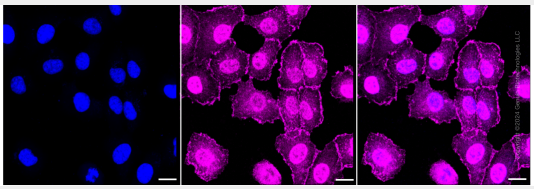


Flow cytometric analysis of Vasodilator stimulated phosphoprotein expression in HT-1080 cells using Vasodilator stimulated phosphoprotein antibody (Cat#AGI1470, 1:2,000). Green, isotype control; red, Vasodilator stimulated phosphoprotein.



Immunocytochemical staining of HT-1080 cells with Vasodilator stimulated phosphoprotein antibody (Cat#AGI1470, 1:1,000). Nuclei were stained blue with DAPI; Vasodilator stimulated phosphoprotein was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.