

**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	<a href="#">P50552</a>
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
<b>Other Names</b>	
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

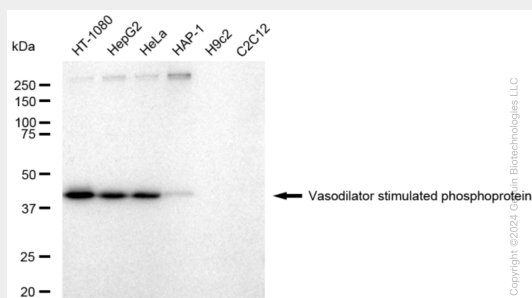
Highly expressed in platelets.

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

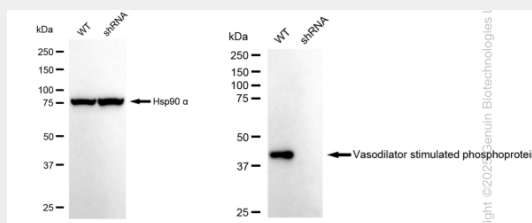
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

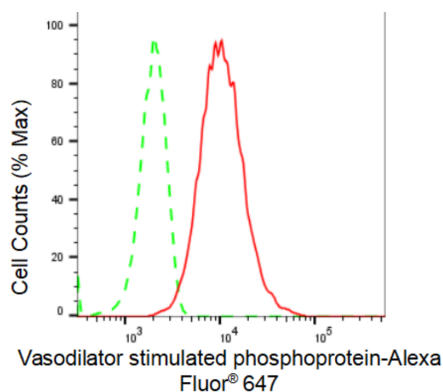
### KD-Validated Anti-Vasodilator stimulated phosphoprotein Rabbit Monoclonal Antibody - Images



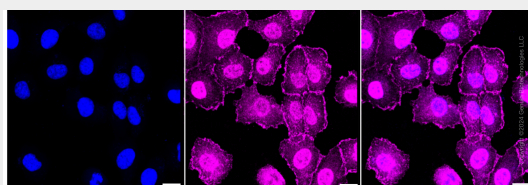
Western blotting analysis using anti-Vasodilator stimulated phosphoprotein antibody (Cat#AGI1470). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Vasodilator stimulated phosphoprotein antibody (Cat#AGI1470, 1:5,000) and HRP-conjugated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



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.