

Product Name: KD-Validated Vasodilator Stimulated Phosphoprotein Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01187

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 39.8kDa

Antigen Information

Gene Name	VASP
Alternative Names	VASP; Vasodilator Stimulated Phosphoprotein; Vasodilator-Stimulated Phosphoprotein
Gene ID	7408.0
SwissProt ID	P50552
Immunogen	A synthesized peptide derived from human VASP

Background

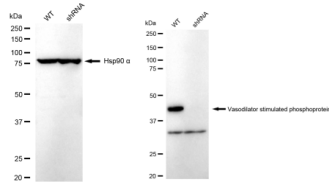
Vasodilator-stimulated phosphoprotein (VASP) is a member of the Ena-VASP protein family. Ena-VASP family members contain an EHV1 N-terminal domain that binds proteins containing E/DFPPPPXD/E motifs and targets Ena-VASP proteins to focal adhesions. In the mid-region of the protein, family members have a proline-rich domain that binds SH3 and WW domain-

containing proteins. Their C-terminal EVH2 domain mediates tetramerization and binds both G and F actin. VASP is associated with filamentous actin formation and likely plays a widespread role in cell adhesion and motility. VASP may also be involved in the intracellular signaling pathways that regulate integrin-extracellular matrix interactions. VASP is regulated by the cyclic nucleotide-dependent kinases PKA and PKG. [provided by RefSeq, Jul 2008]

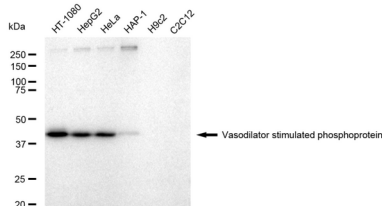
Research Area

Signal Transduction

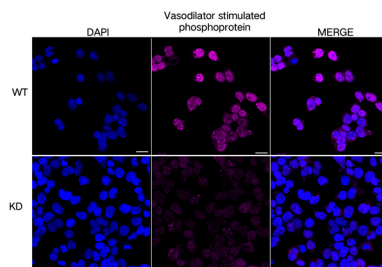
Image Data



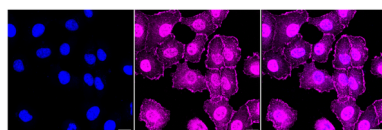
Western blotting analysis using Vasodilator stimulated phosphoprotein antibody (KVA01187). Vasodilator stimulated phosphoprotein expression in wild type (WT) and Vasodilator stimulated phosphoprotein shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Vasodilator stimulated phosphoprotein antibody (KVA01187, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



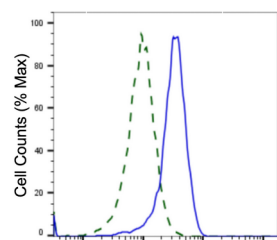
Western blotting analysis using Vasodilator stimulated phosphoprotein antibody (KVA01187). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Vasodilator stimulated phosphoprotein antibody (KVA01187, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Vasodilator stimulated phosphoprotein antibody (KVA01187, 1:1,000). Top panel: wild-type (WT); Bottom panel: Vasodilator stimulated phosphoprotein shRNA knockdown (KD). Nuclei were stained blue with DAPI; Vasodilator stimulated phosphoprotein was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.

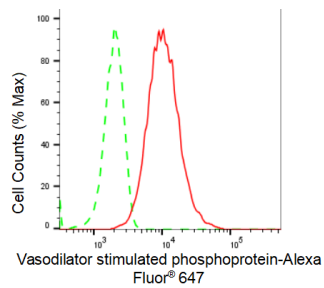


Immunocytochemical staining of HT-1080 cells with Vasodilator stimulated phosphoprotein antibody (KVA01187, 1:1,000). Nuclei were stained blue with DAPI; Vasodilator stimulated phosphoprotein was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Vasodilator stimulated phosphoprotein-Alexa Fluor® 647

Validation of Vasodilator stimulated phosphoprotein knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Vasodilator stimulated phosphoprotein antibody (KVA01187, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Vasodilator stimulated phosphoprotein expression in HT-1080 cells using Vasodilator stimulated phosphoprotein antibody (KVA01187, 1:2,000). Green, isotype control; red, Vasodilator stimulated phosphoprotein.