

Product datasheet for **AP20691PU-M**

VASP Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | IF, IHC, WB |
| Recommended Dilution: | Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections 1/50-1/200. Immunofluorescence: 1/50-1/200. |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Specificity: | This antibody detects endogenous levels of VASP protein. (region surrounding His151) |
| Formulation: | Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 15mM Sodium Azide |
| Concentration: | 1.0 mg/ml |
| Purification: | Affinity Chromatography using epitope-specific immunogen. |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: One year from despatch. |
| Predicted Protein Size: | ~48 kDa |
| Gene Name: | vasodilator-stimulated phosphoprotein |
| Database Link: | <u>Entrez Gene 22323 Mouse</u> <u>Entrez Gene 361517 Rat</u> <u>Entrez Gene 7408 Human</u> <u>P50552</u> |



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Background:

The Wiskott-Aldrich syndrome (WAS) is characterized by thrombocytopenia, eczema, defects in cell-mediated and humoral immunity and a propensity for lymphoproliferative diseases. The syndrome is the result of a mutation in the gene encoding a proline-rich protein termed WASP. WASP has been identified as a downstream effector of Cdc42 and has been implicated in Actin polymerization and cytoskeletal organization. A distantly related protein, VASP (vasodilator-stimulated phosphoprotein), is involved in the maintenance of cytoarchitecture by interacting with Actin-like filaments. VASP shares a limited degree of homology with the amino terminus of WASP, which is frequently mutated in WAS patients. An established substrate of cAMP and cGMP dependent kinases, VASP is phosphorylated on a regulatory serine residue 157 and localizes to focal adhesions, microfilaments and highly active regions of the plasma membrane. VASP is highly expressed in human platelets and, like WASP, may play a role in cytoskeletal organization.

Synonyms:

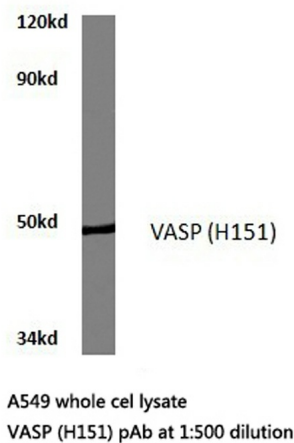
Vasodilator-stimulated phosphoprotein

Protein Families:

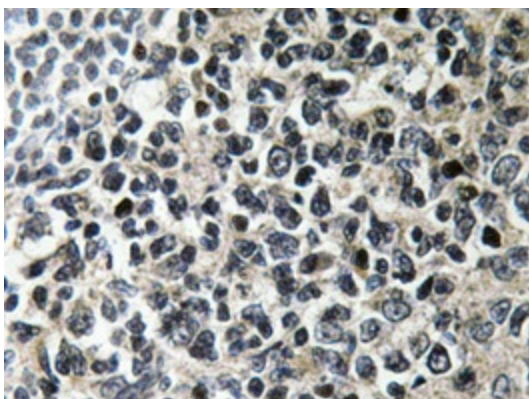
Druggable Genome, Stem cell - Pluripotency

Protein Pathways:

Fc gamma R-mediated phagocytosis, Focal adhesion, Leukocyte transendothelial migration

Product images:


Western blot (WB) analyzes of VASP antibody (Cat.-No.: [AP20691PU-N]) in extracts from A549 cells.



Immunohistochemistry analyzes of VASP antibody (Cat.-No.: [AP20691PU-N]) in paraffin-embedded human tonsil tissue.