

## VASP (Phospho Thr278) Rabbit pAb

CatalogNo: YP1120

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- IHC, IF, ELISA

#### MW

- 40kD (Calculated)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**IHC 1:100-1:300**

**ELISA 1:40000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho-peptide around the phosphorylation site of human VASP (phospho Thr278)

**Specificity** Phospho-VASP (T278) Polyclonal Antibody detects endogenous levels of VASP protein only when phosphorylated at T278. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): KAtQV

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## | Target Information

**Gene name** VASP

**Protein Name** Vasodilator-stimulated phosphoprotein

Organism	Gene ID	UniProt ID
Human	<a href="#">7408</a> ;	<a href="#">P50552</a> ;
Mouse	<a href="#">22323</a> ;	<a href="#">P70460</a> ;

**Cellular Localization**

Cytoplasm. Cytoplasm , cytoskeleton. Cell junction , focal adhesion. Cell junction , tight junction . Cell projection , lamellipodium membrane. Cell projection , filopodium membrane. 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 MEV1 in large specks (pyroptosomes) .

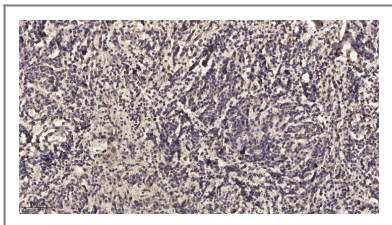
**Tissue specificity** Highly expressed in platelets.

**Function**

Domain:The EVH2 domain is comprised of 3 regions. Block A is a thymosin-like domain required for G-actin binding. The KLKR motif within this block is essential for the G-actin binding and for actin polymerization. Block B is required for F-actin binding and subcellular location , and Block C for tetramerization. ,Domain:The WH1 domain mediates interaction with XIRP1. ,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 and lamellipodial and filopodial dynamics in migrating cells. VASP promotes actin nucleation and increases the rate of actin polymerization in the presence of capping protein. Plays a role in actin-based activity of *Listeria monocytogenes* in platelets. ,PTM:Major substrate for cAMP-dependent (PKA) and cGMP-dependent protein kinase (PKG) in platelets. The preferred site for PKA is Ser-157 , the preferred site for PKG , Ser-239. In ADP-activated platelets , phosphorylation by PKA or PKG on Ser-157 leads to fibrinogen receptor inhibition. Phosphorylation on Thr-278 requires prior phosphorylation on Ser-157 and Ser-239. In response to phorbol ester (PMA) stimulation , phosphorylated by PKC/PRKCA. In response to thrombin , phosphorylated by both PKC and ROCK1. ,similarity:Belongs to the Ena/VASP family. ,similarity:Contains 1 WH1 domain. ,subcellular location: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. ,subunit:Homotetramer. Interacts with PFN1 , PFN2 , LPP , ACTN1 and ACTG1. Interacts , via the EVH1 , with the Pro-rich regions of ZYX. This interaction is important for targeting to focal adhesions and the formation of actin-rich structures at the apical surface of cells. Interacts , via the EVH1 domain , with the Pro-rich domain of *Listeria monocytogenes* actA. Interacts with APBB1IP. Interacts , via the Pro-rich domain , with the C-terminal SH3 domain of DNMBP. ,tissue specificity:Highly expressed in platelets. ,

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## | Validation Data



Immunohistochemical analysis of paraffin-embedded human meningioma. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH 9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

## | Contact information

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