

VASP Polyclonal Antibody

Catalog No: YT4855

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: VASP

Fields: >>Rap1 signaling pathway;>>cGMP-PKG signaling pathway;>>Focal

adhesion;>>Tight junction;>>Platelet activation;>>Fc gamma R-mediated

phagocytosis;>>Leukocyte transendothelial migration

Gene Name: VASP

Protein Name: Vasodilator-stimulated phosphoprotein

P50552

P70460

Human Gene Id: 7408

Human Swiss Prot

No:

Mouse Gene ld: 22323

Mouse Swiss Prot

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

VASP. AA range:244-293

Specificity: VASP Polyclonal Antibody detects endogenous levels of VASP protein.

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

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



Concentration: 1 mg/ml

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

Observed Band: 40-46kD

Focal adhesion;Fc gamma R-mediated phagocytosis;Leukocyte transendothelial **Cell Pathway:**

migration;

Vasodilator-stimulated phosphoprotein (VASP) is a member of the Ena-VASP **Background:**

> protein family. Ena-VASP family members contain an EHV1 N-terminal domain that binds proteins containing E/DFPPPXD/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.

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

VASP is associated with filamentous actin formation and likely plays a

and PKG. [provided by RefSeq, Jul 2008],

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

Plays a role in actin-based activity of Listeria monocytogenes in platelets., PTM: Major substrate for cAMP-dependent (PKA) and cGMP-

increases the rate of actin polymerization in the presence of capping protein.

dependent protein kinase (PKG) in platelets. The preferred

Cytoplasm. Cytoplasm, cytoskeleton. Cell junction, focal adhesion. Cell junction, Subcellular tight junction. Cell projection, lamellipodium membrane. Cell projection, Location:

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 MEFV in large specks

(pyroptosomes).

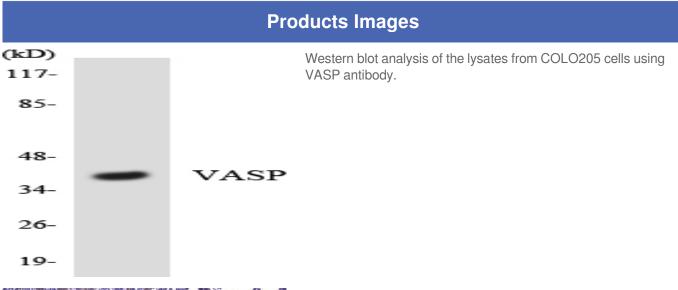
Expression: Highly expressed in platelets.

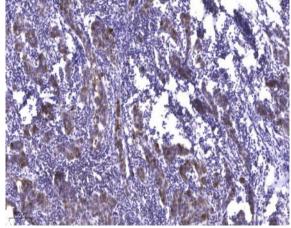
24071 Sort:



Host: Rabbit

Modifications: Unmodified





Immunohistochemical analysis of paraffin-embedded human Breast cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).