

For Research Use Only

VASP Polyclonal antibody

Catalog Number: 13472-1-AP

Featured Product

12 Publications



Basic Information

Catalog Number:

13472-1-AP

Size:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4266

GenBank Accession Number:

BC038224

GeneID (NCBI):

7408

UNIPROT ID:

P50552

Full Name:

vasodilator-stimulated phosphoprotein

Calculated MW:

380 aa, 40 kDa

Observed MW:

46 kDa, 50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:300-1:1200

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : A549 cells, mouse spleen tissue, HEK-293 cells, Hela cells, C6 cells

IP : HEK-293 cells,

IHC : human normal colon, human lung tissue, human skin cancer tissue, human spleen tissue

IF/ICC : HepG2 cells, A549 cells

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

VASP belongs to the Ena/VASP family. 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. VASP 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. Human platelet activation is inhibited by agents such as prostaglandins and NO donors, which elevate cAMP or cGMP levels. VASP is phosphorylated in human platelets in response to both cAMP- and cGMP-elevating agents, and its phosphorylation correlates with platelet inhibition. VASP is located about 92 kb distal to ERCC1 (126380) and about 300 kb proximal to the myotonic dystrophy protein kinase gene. The antibody is specific to VASP.

Notable Publications

Author	Pubmed ID	Journal	Application
Thibault Courtheoux	27641145	Nat Commun	IF
Jun Wang	34745942	Front Oncol	WB
Yajing Lv	33186350	PLoS Biol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

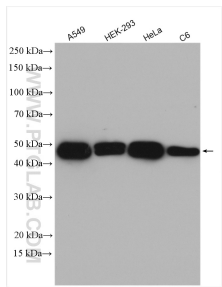
T: 4006900926

E: Proteintech-CN@ptglab.com

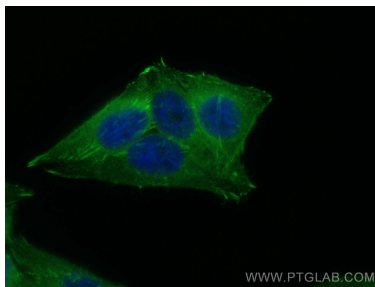
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

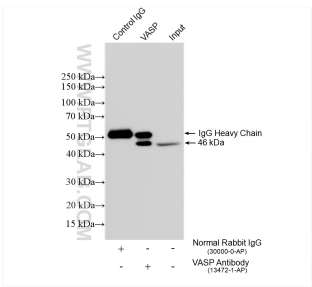
Selected Validation Data



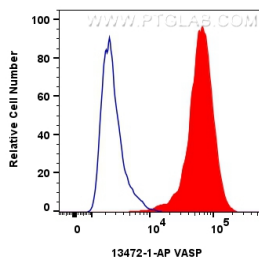
Various lysates were subjected to SDS PAGE followed by western blot with 13472-1-AP (VASP antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



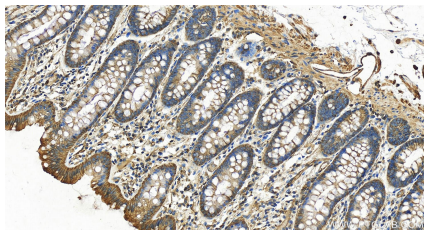
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using VASP antibody (13472-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



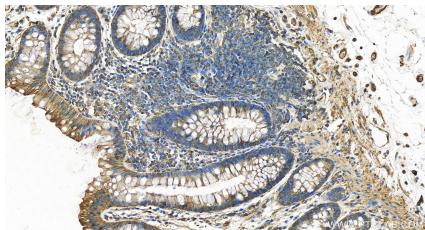
IP result of anti-VASP (IP:13472-1-AP, 4ug; Detection:13472-1-AP 1:10000) with HEK-293 cells lysate 920 ug.



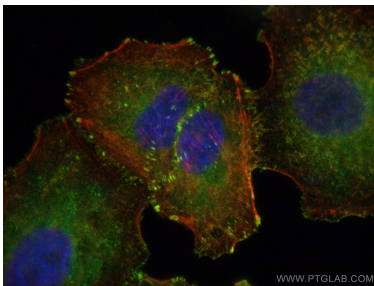
1x10⁶ HepG2 cells were intracellularly stained with 0.4 ug VASP Polyclonal antibody (13472-1-AP) (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 13472-1-AP (VASP antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 13472-1-AP (VASP antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using VASP antibody (13472-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).