

VASP Polyclonal Antibody

Catalog number: 13472-1-AP

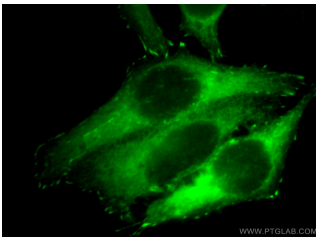
Size: 41 µg/150 µl

Source: Rabbit

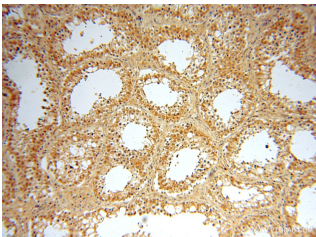
Isotype: IgG

Synonyms:

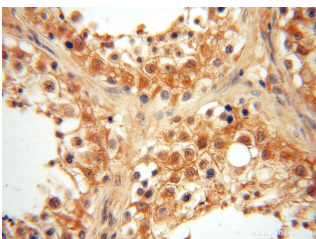
VASP; VASP



Immunofluorescent analysis of HepG2 cells, using VASP antibody 13472-1-AP at 1:50 dilution and FITC-labeled donkey anti-rabbit IgG (green).



Immunohistochemical of paraffin-embedded human testis using 13472-1-AP (VASP antibody) at dilution of 1:100 (under 10x lens)



Immunohistochemical of paraffin-embedded human testis using 13472-1-AP (VASP antibody) at dilution of 1:100 (under 40x lens)

Background

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.

Applications

Tested applications:	ELISA, WB, IHC, IF, FC, IP
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated VASP MW:	380aa, 40 kDa
Observed VASP MW:	46 kDa, 50 kDa
Positive WB detected in	A431 cells, A549 cells, HEK-293 cells, HeLa cells, mouse spleen tissue
Positive IP detected in	Mouse spleen tissue
Positive IHC detected in	Human testis tissue, human heart tissue, human kidney tissue, human lung tissue, human skin cancer tissue, human spleen tissue
Positive IF detected in	HepG2 cells
Positive FC detected in	HepG2 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:20-1:200 FC: N/A

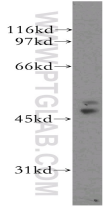
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

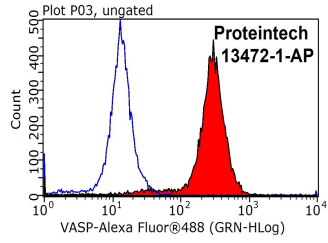
Immunogen:	Ag4266
GenBank accession number:	BC038224
Gene ID (NCBI):	7408
Full name:	Vasodilator-stimulated phosphoprotein

Product information

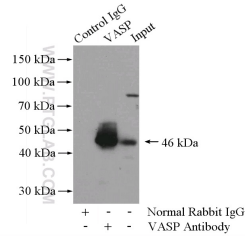
Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



A431 cells were subjected to SDS PAGE followed by western blot with 13472-1-AP(VASP antibody) at dilution of 1:1000



1X10⁶ HepG2 cells were stained with 0.2ug VASP antibody (13472-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



IP Result of anti-VASP (IP:13472-1-AP, 4ug; Detection:13472-1-AP 1:500) with mouse spleen tissue lysate 4800ug.