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Product datasheet for CF502647

VASP Mouse Monoclonal Antibody [Clone ID: OTI4D6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4D6
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human VASP(NP_003361) produced in 293T Cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	39.6 kDa
Gene Name:	Homo sapiens vasodilator stimulated phosphoprotein (VASP), mRNA.
Database Link:	NP_003361 Entrez Gene 22323 MouseEntrez Gene 361517 RatEntrez Gene 7408 Human P50552

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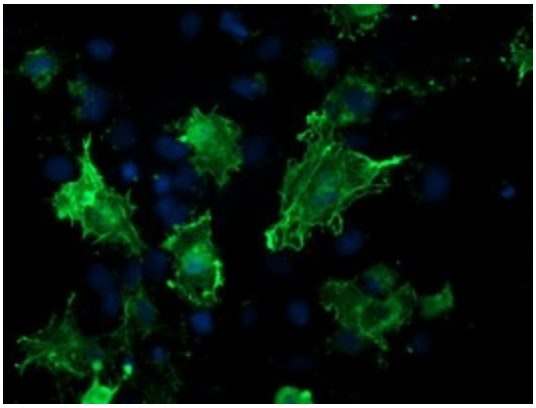
Background: Vasodilator-stimulated phosphoprotein (VASP) is a member of the Ena-VASP protein family. Ena-VASP family members contain an EHV1 N-terminal domain that binds proteins containing E/DFPPPPXD/E motifs and targets Ena-VASP proteins to focal adhesions. In the mid-region of the protein, family 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. VASP is associated with filamentous actin formation and likely plays a 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 and PKG. [provided by RefSeq]

Synonyms: vasodilator-stimulated phosphoprotein

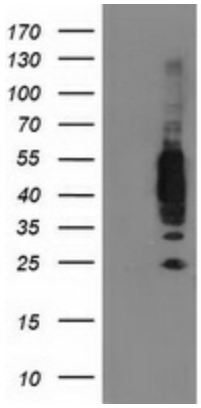
Protein Families: Druggable Genome, Stem cell - Pluripotency

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

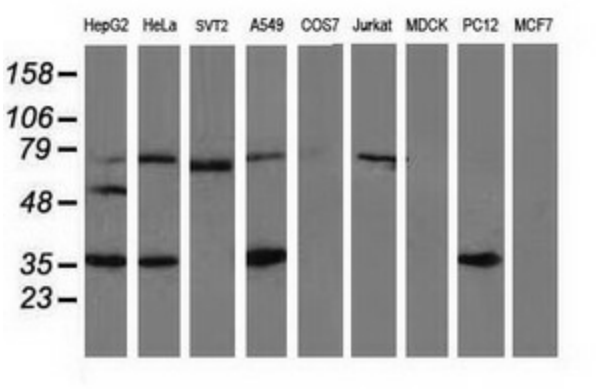
Product images:



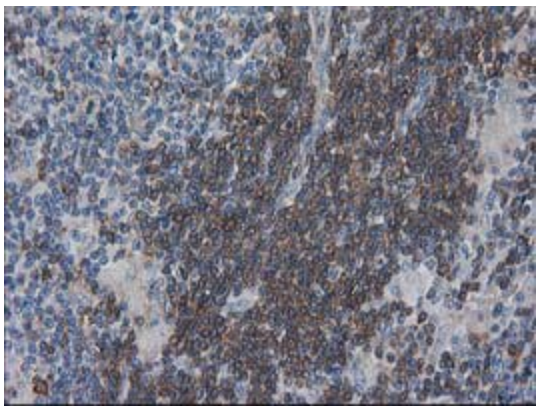
Anti-VASP mouse monoclonal antibody ([TA502647]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY VASP ([RC203544]).



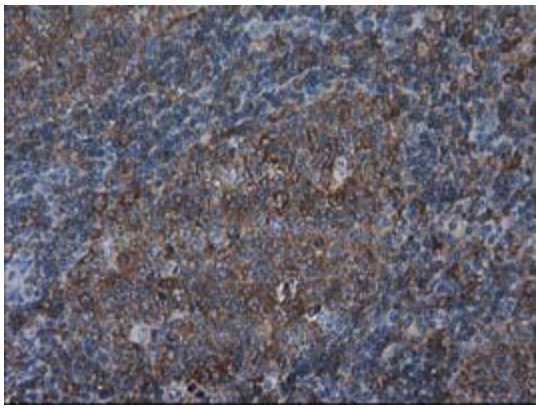
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY VASP (Cat# [RC203544], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-VASP(Cat# [TA502647]). Positive lysates [LY401150] (100ug) and [LC401150] (20ug) can be purchased separately from OriGene.



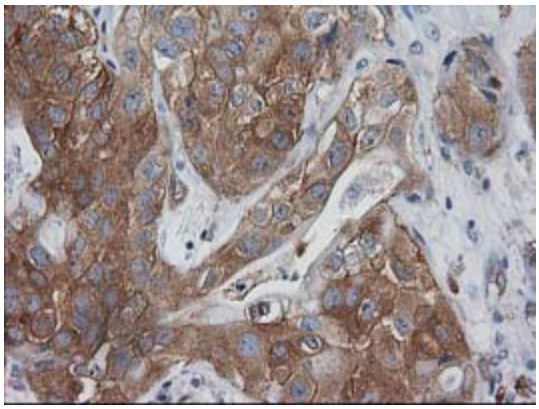
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-VASP monoclonal antibody.



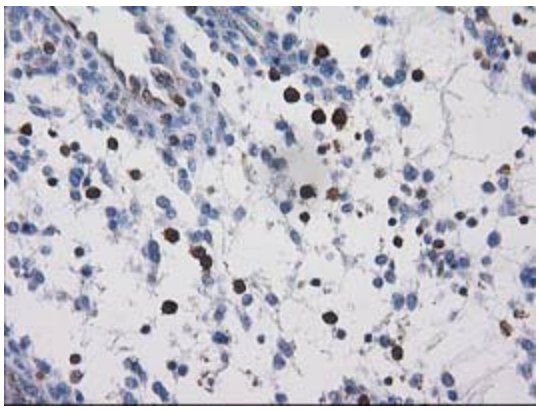
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-VASP mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502647])



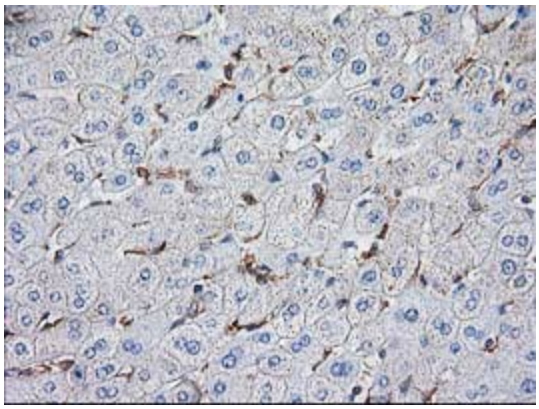
Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-VASP mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502647])



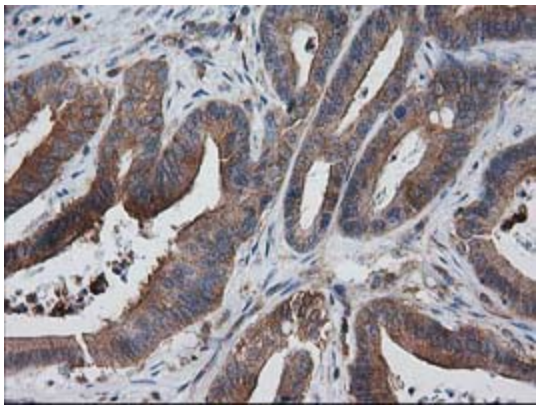
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-VASP mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502647])



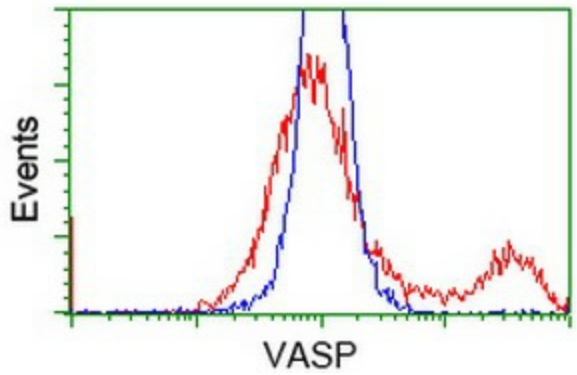
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-VASP mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502647])



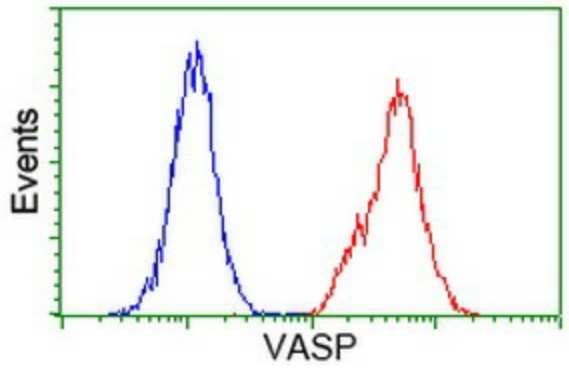
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-VASP mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502647])



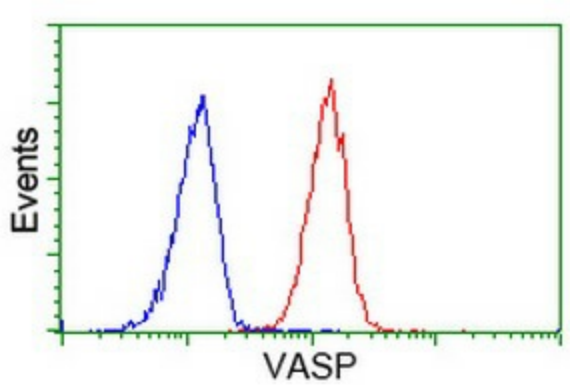
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-VASP mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502647])



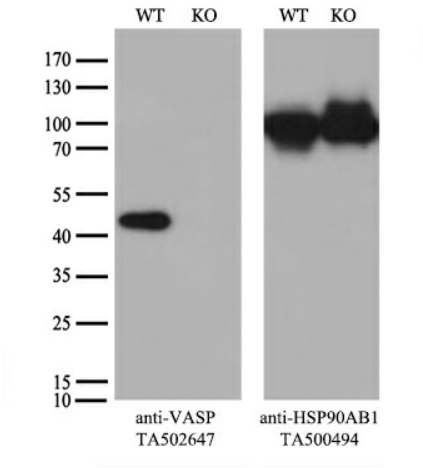
HEK293T cells transfected with either [RC203544] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-VASP antibody ([TA502647]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-VASP antibody ([TA502647]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Hela cells, using anti-VASP antibody ([TA502647]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and VASP-Knockout HeLa cells (KO, Cat# [LC832038]) were separated by SDS-PAGE and immunoblotted with anti-VASP monoclonal antibody [TA502647] (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.