

## Monoclonal antibody to VASP pSer157 - FITC

<b>Alternate names:</b>	Vasodilator-stimulated phosphoprotein
<b>Catalog No.:</b>	AM00155FC-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	VASP (vasodilator stimulated phosphoprotein) plays an important role in ANF / NO / cGMP Protein kinase and cAMP / cAMP Protein kinase signalling pathways. VASP is expressed in almost all human and animal cell lines; particularly high concentrations are found in thrombocytes, vascular smooth muscle cells and fibroblasts. In cultured cells VASP is associated with focal contacts, cell-cell-contacts, microfilaments and dynamic membrane regions such as the leading edge. <i>In vitro</i> binding data show that VASP binds to profilin, zyxin, vinculin, and the <i>Listeria spp.</i> surface protein ActA. Functional evidence indicates that VASP is a crucial factor involved in the enhancement of actin filament formation.
<b>Uniprot ID:</b>	<a href="#">P50552</a>
<b>NCBI:</b>	<a href="#">NP_003361.1</a>
<b>GeneID:</b>	<a href="#">7408</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	5C6
<b>Immunogen:</b>	Phosphopeptide conjugated to KLH. Epitope: Phosphoserine 157 <b>AA Sequence:</b> R-R-V-pS-N-A-G
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Subsequent Thiophilic Adsorption and Size Exclusion Chromatography. <b>Buffer System:</b> 2 x PBS containing 0.09% Sodium Azide / PEG and Sucrose. <b>Label:</b> FITC – Fluorescein Isothiocyanate
<b>Applications:</b>	<b>Flow Cytometry.</b> <b>Immunocytochemistry:</b> 1-10 µg/ml (may tolerate 0.5% Formaldehyde fixation). For ELISA, Immunoblotting and Immunoprecipitation use AM00155PU-N and AM00155BT-N. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Molecular Weight:</b>	46/50 kDa

- Specificity:** This antibody recognizes VASP only, when Ser157 is phosphorylated, a site preferred by cAMP-dependent protein kinase (PKA).  
The antibody does not crossreact with the non-phosphorylated form of VASP nor with unrelated serine-phosphorylated proteins. Therefore, this antibody is able to monitor the phosphorylation state of VASP Serine157 as well as PKA activity.  
**Species:** Human and Mouse.  
Other species not tested.
- Storage:** Aliquote and freeze (in liquid nitrogen at -20°C to -80°C).  
Thaw aliquots at 37°C.  
Thawed aliquots may be stored at 2-8°C up to 3 months.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.
- Product Citations:** **Purchased from Acris:**  
1. Iyú D, Glenn JR, White AE, Fox SC, Heptinstall S. Adenosine derived from ADP can contribute to inhibition of platelet aggregation in the presence of a P2Y12 antagonist. *Arterioscler Thromb Vasc Biol.* 2011 Feb;31(2):416-22. doi: 10.1161/ATVBAHA.110.219501. Epub 2010 Nov 24. PubMed PMID: 21106949.  
2. Iyú D, Glenn JR, White AE, Fox SC, Heptinstall S. Adenosine derived from ADP can contribute to inhibition of platelet aggregation in the presence of a P2Y12 antagonist. *Arterioscler Thromb Vasc Biol.* 2011 Feb;31(2):416-22. doi: 10.1161/ATVBAHA.110.219501. Epub 2010 Nov 24. PubMed PMID: 21106949.
- Recommended Control Peptides:** AM00155CP-N

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**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)