

## Product datasheet for **AM00156BT-N**

### VASP pSer239 Mouse Monoclonal Antibody [Clone ID: 16C2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	16C2
Applications:	ELISA, FC, IF, IP, WB
Recommended Dilution:	<b>Western Blot:</b> 0.5 µg/ml for HRPO/ECL detection. <b>Recommended blocking buffer:</b> BSA/Tween 20 based blocking and blot incubation buffer. <b>ELISA:</b> 0.05 µg/ml. <b>Immunoprecipitation:</b> 1-10 µg per 10 <sup>6</sup> pervanadate-treated A431 cells. <b>Immunocytochemistry:</b> 1-10 µg/ml. Mab VASP-16C2 may tolerate 0.5 % formaldehyde fixation. <b>Flow Cytometry.</b>
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH
Specificity:	This antibody recognizes VASP only, when Ser 239 is phosphorylated, a site preferred by cGMP-dependent protein kinase (PKG) but also used 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, antibody VASP-16C2 is able to monitor the phosphorylation state of VASP serine 239 as well as PKA activity.
Formulation:	2 x PBS with 0.09% Sodium Azide, PEG and Sucrose Label: Biotin State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Size Exclusion Chromatography
Conjugation:	Biotin
Storage:	Store the antibody (Aliquote and freeze in liquid nitrogen) at -20°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.



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<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	vasodilator-stimulated phosphoprotein
<b>Database Link:</b>	<a href="#">Entrez Gene 7408 Human P50552</a>
<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. In vitro binding data show that VASP binds to profilin, zyxin, vinculin, and the Listeria spp. surface protein ActA. Functional evidence indicates that VASP is a crucial factor involved in the enhancement of actin filament formation.
<b>Synonyms:</b>	Vasodilator-stimulated phosphoprotein