

Product datasheet for **AM00156FC-N**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	16C2
Applications:	FC, IF
Recommended Dilution:	Flow Cytometry. Immunocytochemistry: 1-10 µg/ml (may tolerate 0.5% Formaldehyde fixation). For Immunoblotting and Immunoprecipitation use Cat.-No AM00156PU-N and AM00156BT-N.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH. Epitope: Phosphoserine 239
Specificity:	This antibody recognizes VASP only, when Ser239 is phosphorylated, a site preferred by cGMP-dependent protein kinase (PKG) but also used by cAMP-dependent protein kinase (PKA). This antibody does not crossreact with the non-phosphorylated form of VASP nor with unrelated serine-phosphorylated proteins. Therefore, The antibody is able to monitor the phosphorylation state of VASP Serine239 as well as PKA activity.
Formulation:	2 x PBS containing 0.09% Sodium Azide / PEG and Sucrose Label: FITC State: Liquid purified IgG fraction from serum-free cell culture supernatant Label: Fluorescein Isothiocyanate Molar ratio: DOL = 2.9
Concentration:	lot specific
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Conjugation:	FITC



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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.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	46/50 kDa
Gene Name:	vasodilator-stimulated phosphoprotein
Database Link:	Entrez Gene 7408 Human P50552
Background:	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 <i>Listeria</i> spp. surface protein ActA. Functional evidence indicates that VASP is a crucial factor involved in the enhancement of actin filament format
Synonyms:	Vasodilator-stimulated phosphoprotein