

Product datasheet for **AM00156PU-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:	ELISA (0.05 µg/ml). Immunoblotting (0.5 µg/ml for HRPO/ECL detection). <i>Recommended blocking buffer:</i> BSA/Tween 20 based blocking and blot incubation buffer. Flow Cytometry. Immunoprecipitation (1-10 µg per 10e6 pervanadate-treated A431 cells). Immunocytochemistry (1-10 µg/ml; may tolerate 0.5% formaldehyde fixation).
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH Epitope: Phosphoserine 239 RKVpSKQE
Specificity:	AM00156PU-N recognizes VASP only, when Ser 239 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, mab AM00156PU-N (clone 16C2) is able to monitor the phosphorylation state of VASP serine 239 as well as PKA activity.
Formulation:	2x PBS containing 0.09% Sodium Azide, PEG and Sucrose. State: Purified State: Lyophilized purified Ig fraction from serum-free cell culture supernatant
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Conjugation:	Unconjugated



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Storage:	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquot and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 2-8°C up to 3 months. Avoid repeated freeze / thaw cycles!
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. 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.
Synonyms:	Vasodilator-stimulated phosphoprotein
Note:	Molecular Weight: 46/50 kDa