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Product datasheet for AM00155BT-N

VASP pSer157 Mouse Monoclonal Antibody [Clone ID: 5C6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5C6
Applications:	ELISA, FC, IF, IP, WB
Recommended Dilution:	**Western blot:** 0.5 µg/ml for HRPO/ECL detection. ***Recommended blocking buffer:*** Casein/Tween 20 based blocking and blot incubation buffer. **ELISA:** 0.05 µg/ml. **Immunoprecipitation:** 1-10 µg per 10e6 pervanadate-treated A431 cells. **Immunocytochemistry:** 1-10 µg/ml (VASP-5C6 may tolerate 0.5% formaldehyde fixation). **Flow Cytometry.**
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH. **Epitope:** Phosphoserine 157
Specificity:	This antibody recognizes VASP only, when Ser 157 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, antibody VASP-5C6 is able to monitor the phosphorylation state of VASP serine 157 as well as PKA activity.
Formulation:	PBS with 0.09% Sodium Azide, PEG and Sucrose Label: Biotin State: Liquid purified IgG fraction from serum-free cell culture supernatant
Concentration:	lot specific
Purification:	Thiophilic Adsorption and Size Exclusion Chromatography
Conjugation:	Biotin
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.

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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 Listeria spp. surface protein ActA. Functional evidence indicates that VASP is a crucial factor involved in the enhancement of actin filament

Synonyms: Vasodilator-stimulated phosphoprotein