

Mouse Monoclonal Antibody to

VASP (phospho-Ser 157)

clone 5C6

biotinylated

Order No.: 0085-100BIOTIN/VASP-5C6
Size (µg) 100
Lot No.: 0085S



05/080507F

| Isotype | Species Reactivity | Applications | Mol. Weight | Ref.Cell Line | Epitope | Immunogen |
|---------|--------------------|------------------------------------|-------------|---------------|-------------------------------------|----------------------------------|
| IgG1 | human, mouse | WB, ELISA, IP, ICC, flow cytometry | 46/50 kDa | none | phosphoserine 157 R R V pS N A G | phosphopeptide conjugated to KLH |

Background and Specificity:

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.

Mab VASP-5C6 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.

Related Products

Blocking peptide for mab VASP-5C6
 #2001-100/VASP pSer157

mab to VASP (phospho-Ser 239)

#0047-100/VASP-16C2
 #0153-100/VASP-22E11

IMPORTANT!

THE USE OF ANTIBODIES SPECIFIC FOR PHOSPHORYLATED VASP FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES IS PATENTED!

THE ANTIBODY IS SUPPLIED FOR RESEARCH USE ONLY!

| | |
|-----------------------------|---|
| Purification: | The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography. |
| Formulation: | liquid; 0.5 mg/ml in PBS/0,09% Na-Azide/PEG/Sucrose |
| Reconstitution: | |
| Stability: | Aliquote and freeze in liquid nitrogen; antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months. Avoid repeated freeze / thaw cycles. |
| Positive Control: | none |
| Immunoblotting: | 0.5 µg/ml for HRPO/ECL detection Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT. |
| Immunoprecipitation: | use at 1 - 10 µg per 10 ⁶ pervanadate-treated A431 cells |
| Immunocytochemistry: | use at 1 - 10 µg/ml; Mab VASP-5C6 may tolerate 0.5% formaldehyde fixation |
| ELISA: | use at 0.05 µg/ml |

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.