

## Mouse Monoclonal Antibody to

# VASP (phospho-Ser 239)

## clone 16C2

## biotinylated

**Order No.:** 0047-100BIOTIN/VASP-16C2

**Size (µg)** 100

**Lot No.:** 0047S

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04/080507F

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 239 R K V pS K Q E	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-16C2** 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.

### Related Products

**Blocking peptide for mab VASP-16C2**

#2002-100/VASP pSer239

**mab to VASP (phospho-Ser 157)**

#0085-100/VASP-5C6

**mab to VASP (phospho-Ser 239)**

#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!**

<b>Purification:</b>	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
<b>Formulation:</b>	liquid; 0.5 mg/ml in 2 x PBS/0,09% Na-Azide/PEG/Sucrose
<b>Reconstitution:</b>	
<b>Stability:</b>	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.  <b>Avoid repeated freeze / thaw cycles.</b>
<b>Positive Control:</b>	none
<b>Immunoblotting:</b>	0.5 µg/ml for HRPO/ECL detection <b>Recommended blocking buffer:</b> BSA/Tween 20 based blocking and blot incubation buffer
<b>Immunoprecipitation:</b>	use at 1 - 10 µg per 10 <sup>6</sup> pervanadate-treated A431 cells
<b>Immunocytochemistry:</b>	use at 1 - 10 µg/ml. Mab VASP-16C2 may tolerate 0.5 % formaldehyde fixation
<b>ELISA:</b>	use at 0.05 µg/ml

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