

## Mouse Monoclonal Antibody to

# VASP (phospho-Ser 239)

## clone 16C2

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

**Size (µg)** 100

**Lot No.:** 0047S



03/080507F

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!**

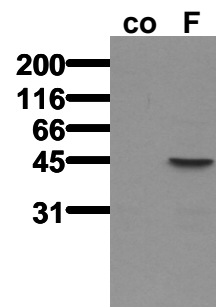
<b>Purification:</b>	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
<b>Formulation:</b>	lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.
<b>Reconstitution:</b>	Reconstitute with 1 ml H <sub>2</sub> O (15 min, RT).
<b>Stability:</b>	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote 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 4°C up to 3 months.

**Avoid repeated freeze / thaw cycles.**

<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.**



Phosphospecificity

Whole cell extracts of control (co) or Forskolin (F) treated MDA-MB-231 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to PVDF membranes. Immunoblots were probed with mab 16C2 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).