

## Mouse Monoclonal Antibody to

# VASP (phospho-Ser 239)

## clone 22E11

**Order No.:** 0153-100/VASP-22E11

**Size (µg)** 100

**Lot No.:** 0153S



03/080507F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref. Cell Line	Epitope	Immunogen
IgG1	human, mouse	WB, ELISA flow cytometry	46/50 kDa	HepG2	phosphoserine 239 R K V pS K Q E	phosphopeptide conjugated to hemocyanin

### 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-22E11** 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-22E11 is able to monitor the phosphorylation state of VASP serine 239 as well as PKA activity.

### Related Products

**Blocking peptide for mab VASP-22E11**  
#2002-100/VASP pSer239

**mab to VASP (phospho-Ser 239)**  
#0047-100/VASP-16C2

**mab to VASP (phospho-Ser 157)**  
#0085-100/VASP-5C6

### 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.

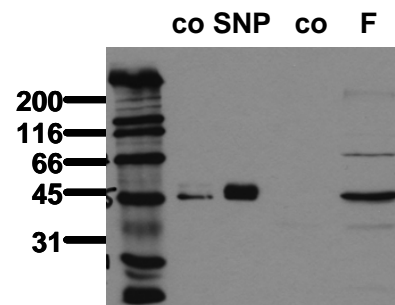
<b>Positive Control:</b>	#0814: Cell lysate from Forskolin-treated HepG2 cells
<b>Immunoblotting:</b>	0.5 µg/ml for HRPO/ECL detection <b>Recommended blocking buffer:</b> Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

**Immunoprecipitation:** ND

**Immunocytochemistry:** ND

**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.**



### Phosphospecificity

Whole cell extracts of control (co) or sodium nitroprusside (SNP) treated human platelets and extracts from control (co) or Forskolin (F) treated HepG2 cells were applied to SDS-PAGE and transferred to PVDF membranes. Immunoblots were probed with mab 22E11 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).