

Mouse Monoclonal Antibody to

VASP (phospho-Ser 157)

clone 5C6

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



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 157 R R V p S 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)

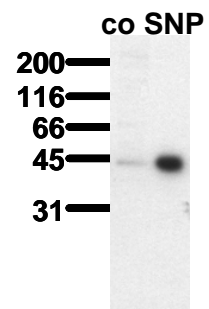
#0047-100/VASP-16C2
 #0153-100/VASP-22E11

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:	lyophilized from 1 ml PBS / 0.09 % Na-azide / PEG and Sucrose.
Reconstitution:	Reconstitute with 1 ml H ₂ O (15 min, RT).
Stability:	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.
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



Phosphospecificity

Whole cell extracts of control (co) or SNP treated human platelets were applied to SDS-PAGE and transferred to PVDF membranes. Immunoblots were probed with mab 5C6 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

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