

Monoclonal Antibody to

VASP (phospho-Ser 157)**clone 5C6**

Order No.:	0085-100/VASP-5C6	Last Modified	09.02.2005
Size (µg)	100		
Lot No.:	0085S		
Host:	Mouse		
Isotype:	IgG1 kappa		
Immunogen:	Phosphopeptide conjugated to KLH		
Epitope:	activated VASP (Serine 157)		

Species Reactivity	Human	Mouse	Rat	Dog
	<input type="text" value="yes"/>	<input type="text" value="yes"/>	<input type="text" value="ND"/>	<input type="text" value="ND"/>

Background & Specificity:

VASP (Vasodilator Stimulated Phosphoprotein) plays an important role in ANF / NO / cGMP / cGMP Protein Kinase and cAMP / cAMP Protein Kinase signalling. 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 **Serine 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 5C6 is able to monitor the phosphorylation state of VASP serine 157 as well as PKA activity.

Smolenski et al. (2000), J Biol Chem 275, 25723-27532; Burkhardt et al. (2000) J Biol Chem 275, 33536-33541

IMPORTANT! THE USE OF MAB VASP-5C6 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 2 x PBS / 0.1 % Na-azide / PEG and Sucrose.
Reconstitution:	Reconstitute with 1 ml H ₂ O (15 min, RT).
Stability:	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:	
Immunoblotting:	1 µg/ml for AP/BCIP/NBT (MTT) detection; 0.1 µg/ml for HRPO/ECL detection
Immunoprecipitation	use at 1 - 10 µg per 10 ⁶ vanadate treated A431 cells
Immunocytochemistry	use at 1-10 µg/ml. Mab VASP-16C2 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.