

Spinophilin Antibody



Orders: 877-616-CELL (2355) orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit	UniProt ID: #Q96SB3	Entrez-Gene Id: 84687
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Spinophilin Antibody recognizes endogenous levels of total spinophilin protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala369 of human spinophilin protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Spinophilin is an 815 amino acid protein composed of a PDZ domain, 2 actin-binding domains, a receptor- and PP1-binding domain, three coiled-coiled domains, a potential leucine/isoleucine zipper motif, and three potential SH3 domains (1). Spinophilin interacts with a large number of proteins including ion channel components and G protein-coupled receptors (GPCRs). Spinophilin also interacts with actin filaments; phosphorylation of spinophilin at Ser94 and Ser177 disrupts this interaction (2). Spinophilin has been shown to affect GPCR function through two different mechanisms: spinophilin acts as a functional inhibitor of G-2 adrenergic receptor-mediated arrestin signaling by competing with GRK2 binding to the adrenergic receptor (3) and spinophilin facilitates μ -opioid receptor desensitization by promoting receptor endocytosis (4).				
Background References		 Sarrouilhe, D. et al. (2006) <i>Biochimie</i> 88, 1099-113. Hsieh-Wilson, L.C. et al. (2003) <i>J Biol Chem</i> 278, 1186-94. Wang, Q. et al. (2004) <i>Science</i> 304, 1940-4. Charlton, J.J. et al. (2008) <i>Neuron</i> 58, 238-47. 				
Species Reactiv	vitv	Species reactivity is det	termined by testin	a in at least one approve	ad application (e.g.	western blot)
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Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				

more information.

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