#14136 Store at -20C

Spinophilin (E1E7R) Rabbit mAb



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Applications: WB, IP, IHC-P, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit IgG	UniProt ID: #Q96SB3	Entrez-Gene ld: 84687	
Product Usage Information	Ар	Application				Dilution	
	We	stern Blotting				1:1000	
	Imr	nunoprecipitation				1:50	
	Imr	nunohistochemistry		1:800			
	Imr	Immunofluorescence (Immunocytochemistry)				1:800	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensit	ivity Spin	Spinophilin (E1E7R) Rabbit mAb recognizes endogenous levels of total spinophilin protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro298 of human spinophilin protein.					
Background	and pote com phos show of α-	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 α -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 Refere	2. H: 3. W	 Sarrouilhe, D. et al. (2006) Biochimie 88, 1099-113. Hsieh-Wilson, L.C. et al. (2003) J Biol Chem 278, 1186-94. Wang, Q. et al. (2004) Science 304, 1940-4. Charlton, J.J. et al. (2008) Neuron 58, 238-47. 					

Species Reactivity Species reactivity is determined by

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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