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## ទី Spinophilin (E1E7R) Rabbit mAb



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP, IHC-P, IF-IC	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 130	Source/Isotype: Rabbit IgG	UniProt ID: #Q96SB3	Entrez-Gene Id: 84687		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunohistochemistr Immunofluorescence	-	istry)		<b>Dilution</b> 1:1000 1:50 1:800 1:800		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
		For a carrier free (BSA and azide free) version of this product see product #45071.						
Specificity/Sen	sitivity	Spinophilin (E1E7R) Rabbit mAb recognizes endogenous levels of total spinophilin protein.						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro298 of human spinophilin protein.						
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 $\alpha$ -2 adrenergic receptor-mediated arrestin signaling by competing with GRK2 binding to the adrenergic receptor (3) and spinophilin facilitates $\mu$ -opioid receptor desensitization by promoting receptor endocytosis (4).						
Background Re	ferences	1. Sarrouilhe, D. et al. ( 2. Hsieh-Wilson, L.C. et 3. Wang, Q. et al. (2004 4. Charlton, J.J. et al. (2	t al. (2003) <i>J Biol Ch</i> 4) <i>Science</i> 304, 1940	em 278, 1186-94. )-4.				
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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 Ke	≥y	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	y Key	H: Human M: Mouse R: Rat						
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