9017

STEP (D7E2) Rabbit mAb



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Applications: W, IP	Sensitivity: Endogenous	MW (kDa): 46, 61	Source/Isotype: Rabbit IgG	UniProt ID: #P54829	Entrez-Gene Id: 84867
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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			
Specificity/Sensitivity		STEP (D7E2) Rabbit mAb detects endogenous levels of total STEP46 and STEP61 proteins.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro225 of human STEP61 protein.			
Background		expressed in dopaminor the cytosolic STEP46 and receptors and PKA, whico occurs at Ser160 and Se (2). NMDA-mediated act neurons (3). Furthermore	d the membrane-associate th in turn phosphorylate b r221, while STEP46 is pho civation of STEP is an impo re, STEP is involved in the	ntral nervous system ed STEP61 isoforms o ooth isoforms of STEI sphorylated at Ser49 ortant mechanism foi regulation of both N	n tyrosine phosphatase (1). Alternative splicing produces of STEP. Dopamine activates D1 P. Phosphorylation of STEP61 (equivalent to Ser221 of STEP61 regulation of Erk activity in MDAR and AMPAR trafficking in Alzheimer's disease (1).
Background References		1. Braithwaite, S.P. et al. (2006) <i>Trends Neurosci</i> 29, 452-8. 2. Paul, S. et al. (2000) <i>J Neurosci</i> 20, 5630-8. 3. Paul, S. et al. (2003) <i>Nat Neurosci</i> 6, 34-42. 4. Braithwaite, S.P. et al. (2006) <i>Eur J Neurosci</i> 23, 2847-56. 5. Zhang, Y. et al. (2008) <i>J Neurosci</i> 28, 10561-6.			
Species Reactivi	ty	Species reactivity is dete	ermined by testing in at le	ast one approved ap	plication (e.g., western blot).
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			

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