## **SynGAP Antibody**



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<b>Applications:</b> W, W-S	<b>Reactivity:</b> M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 140	<b>Source/Isotype:</b> Rabbit	UniProt ID: #Q96PV0	Entrez-Gene Id: 8831	
Product Usage Information		<b>Application</b> Western Blotting Simple Western™		<b>Dilution</b> 1:1000 1:10 - 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		SynGAP Antibody detects endogenous levels of total SynGAP protein.					
Species predicted to react based on 100% sequence homology		Human					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human SynGAP. Antibodies are purified by peptide affinity chromatography.					
Background		concentrations, specific domain, a C2 domain, activity and its downs well as PSD95, a posts is phosphorylated by among other sites (2, and PSD95-dependen (1,4). SynGAP is implicible lacking SynGAP	fically at excitatory in and a highly consecteam signaling pates and a highly consecteam signaling pates. The area are also and a highly and a highly area area in NMDAR- and a lie in synaptic plastiprotein die postnate	rotein selectively expressynapses in the mamma erved RasGAP domain, whways. SynGAP interactions of SynGAP interactions of SynGAP increased CaMKII-dependent recity (3,5). SynGAP is critically. Furthermore, SynGAP in spatial memory target in the mamory target in spatial memory target in the mamory target in the ma	lian forebrain. SynC thich negatively reg s with the PDZ dom nGAP to NMDA rece II (CaMKII) at Ser76 mulation of the GTF ases after transient gulation of AMPAR to cal during neuronal AP mutant mice hav	GAP has a PH ulates both Ras ains of SAP102, as eptors (1). SynGAP 55 and Ser1123, Pase activity of Ras, brain ischemia trafficking and development as	
Background References		1. Kim, J.H. et al. (1998) <i>Neuron</i> 20, 683-91. 2. Oh, J.S. et al. (2004) <i>J Biol Chem</i> 279, 17980-8. 3. Krapivinsky, G. et al. (2004) <i>Neuron</i> 43, 563-74. 4. Song, B. et al. (2004) <i>Brain Res</i> 1005, 44-50. 5. Komiyama, N.H. et al. (2002) <i>J Neurosci</i> 22, 9721-32. 6. Kim, J.H. et al. (2003) <i>J Neurosci</i> 23, 1119-24.					
Species Reactivity		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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Ke	·V	<b>W:</b> Western Blotting <b>W-S:</b> Simple Western™					

Applications Key **W:** Western Blotting **W-S:** Simple Western

**Cross-Reactivity Key** M: Mouse R: Rat

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