SynGAP (D88G1) Rabbit mAb



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

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #Q96PV0	Entrez-Gene Id 8831
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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.				
Specificity/Sensitivity		SynGAP (D88G1) Rabbit mAb detects endogenous levels of total SynGAP protein.				
Species predicted to react based on 100% sequence homology		Human				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe1010 of human SynGAP protein.				
Background		concentrations, speci- domain, a C2 domain activity and its downs well as PSD95, a post: is phosphorylated by among other sites (2, and PSD95-dependen (1,4). SynGAP is implice plays an important ro- mice lacking SynGAP	fically at excitatory in a fically at excitatory in and a highly consected with a first support of the first suppo	rotein selectively expressynapses in the mamma erved RasGAP domain, who thways. SynGAP interact protein that couples Syngendent protein kinase of SynGAP results in stiry ylation of SynGAP incread d CaMKII-dependent recity (3,5). SynGAP is critically. Furthermore, SynGArly in spatial memory ta	ilian forebrain. Synd which negatively reg s with the PDZ dom mGAP to NMDA rec II (CaMKII) at Ser76 mulation of the GTI ases after transient gulation of AMPAR cal during neuronal AP mutant mice hav	GAP has a PH julates both Ras lains 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 Reactiv	ıitv.	Spacias reactivity is d	etermined by testin	g in at least one approve	od application (o.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.

165, 0.170 (Ween & 20 at 4 e With ger

Cross-Reactivity Key

Applications Key

W: Western Blotting
M: Mouse R: Rat

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for

more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no

force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.