

TRPC3 (D4P5S) Rabbit mAb



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

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 105	Source/Isotype: Rabbit IgG	UniProt ID: #Q13507-3	Entrez-Gene Id 7222
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 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		TRPC3 (D4P5S) Rabbit mAb recognizes endogeneous levels of total TRPC3 protein. This antibody does not cross-react with TRPC6 or TRPC7 proteins.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human TRPC3 protein.				
Background		The TRPC subramily (TI increase in intracellula kinases (1). TRPC3 is m level (2). In the brain, T formation, and neuron coordination (7). Outsifunctions such as reguprimary T cells and end	RPC1-7) is a group r [Ca2+] following ainly expressed in RPC3 is involved in all survival (3-6). It de of the central n lating cardiac and dothelial cells (8-10 It is also activated	(TRPC3) belongs to the soft calcium-permeable calcium-permeable calcium-permeable calcium and various on BDNF-induced axonal gis also required for synaervous system, TRPC3 alwascular contractility, multiple in the properties of	ation channels that coupled receptors of ther tissues, though growth cone plastic aptic transmission a lso exerts other im aintaining Ca2+ ho diacylglycerol and	mediates the or receptor tyrosine in at a much lower ity, dendritic spine and motor cortant biological meostasis in (nositol 1,4,5-
Background References		1. Montell, C. (2005) <i>Sci STKE</i> 2005, re3. 2. Riccio, A. et al. (2002) <i>Brain Res Mol Brain Res</i> 109, 95-104. 3. Li, H.S. et al. (1999) <i>Neuron</i> 24, 261-73. 4. Li, Y. et al. (2005) <i>Nature</i> 434, 894-8. 5. Amaral, M.D. and Pozzo-Miller, L. (2007) <i>J Neurosci</i> 27, 5179-89. 6. Jia, Y. et al. (2007) <i>Nat Neurosci</i> 10, 559-67. 7. Hartmann, J. et al. (2008) <i>Neuron</i> 59, 392-8. 8. Nilius, B. et al. (2003) <i>Endothelium</i> 10, 5-15. 9. Yeon, S.I. et al. (2014) <i>PLoS One</i> 9, e110413. 10. Wenning, A.S. et al. (2011) <i>Biochim Biophys Acta</i> 1813, 412-23. 11. Hofmann, T. et al. (1999) <i>Nature</i> 397, 259-63. 12. Song, T. et al. (2015) <i>Am J Physiol Lung Cell Mol Physiol</i> 309, L1455-66. 13. Ma, H.T. et al. (2000) <i>Science</i> 287, 1647-51. 14. Feng, S. et al. (2013) <i>Proc Natl Acad Sci U S A</i> 110, 11011-6.				

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 Key

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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