e at -20C	TRPC3 (D4P5S) Rabbit mAb		Cell Signaling		
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Applications: WB, 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 mmunoprecipitation			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 / Purificat	Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human TRPC3 protein.					sponding to		
Background		Transient Receptor Potential Canonical 3 (TRPC3) belongs to the superfamily of TRP cation channels. The TRPC subfamily (TRPC1-7) is a group of calcium-permeable cation channels that mediates the increase in intracellular [Ca2+] following activation by G-protein-coupled receptors or receptor tyrosine kinases (1). TRPC3 is mainly expressed in the brain and various other tissues, though at a much lower level (2). In the brain, TRPC3 is involved in BDNF-induced axonal growth cone plasticity, dendritic spine formation, and neuronal survival (3-6). It is also required for synaptic transmission and motor coordination (7). Outside of the central nervous system, TRPC3 also exerts other important biological functions such as regulating cardiac and vascular contractility, maintaining Ca2+ homeostasis in primary T cells and endothelial cells (8-10). TRPC3 is activated by diacylglycerol and Inositol 1,4,5-trisphosphate (11,12). It is also activated by internal calcium store depletion and regulates mitochondrial calcium uptake (13,14).						
Background Refe	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	Jia, Y. et al. (2007) Nai Hartmann, J. et al. (20 Nilius, B. et al. (2003) Yeon, S.I. et al. (2014) Wenning, A.S. et al. (2 Hofmann, T. et al. (199 Song, T. et al. (2015) A Ma, H.T. et al. (2000) S	Brain Res Mol I euron 24, 261-7 ire 434, 894-8. zo-Miller, L. (200 t Neurosci 10, 5 08) Neuron 59, Endothelium 10 PLoS One 9, e 011) Biochim Bi 09) Nature 397, Am J Physiol Lui Science 287, 16	Brain Res 109, 95-104. '3. '7) J Neurosci 27, 5179 59-67. 392-8. , 5-15. 110413. iophys Acta 1813, 412-2 259-63. ng Cell Mol Physiol 309	23. , L1455-66.			
Species Reactivity Western Blot Buffer		ecies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	stern blot).		
		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 Cross-Reactivity Key		B: Western Blotting IP:	Immunoprecipi	tation				
		H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						

Trademarks and Patents TRPC3 (D4P5S) Rabbit mAb (#77934) Datasheet Without Images Cell Signaling Technology

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