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GIRK2 (D3T1N) Rabbit mAb



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Applications: F WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 46	Source/Isotype: Rabbit IgG	UniProt ID: #P48051	Entrez-Gene Id: 3763	
Product Usage Information	Ap	Application		Dilution			
	We	estern Blotting			1:1000		
	Imi	munoprecipitation			1:50		
Storage		•		.5), 150 mM NaCl, 100 $\mu g/ml$ BSA, 50% glycerol and less than not aliquot the antibody.			
Specificity / Sensitivity		GIRK2 (D3T1N) Rabbit mAbrecognizes endogenous levels of total GIRK2 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu22 of human GIRK2 protein.					
Background	GIR cen hete brai (8). the	GIRK2 is a member of G protein-coupled inwardly rectifying potassium channel family proteins (GIRKs). GIRK family proteins allow potassium to flow into the cell and therefore control cellular excitability in the central nervous system, heart, and pancreas (1-4). Activation of most GIRK channels requires heterologous subunit assembly and the presence of ATP (5-7). GIRK2 is abundantly expressed in the brain, where it is involved in pain perception. It is also required for peripheral opioid-mediated analgesia (8). Additionally GIRK2 localizes to pancreatic β cells and regulates insulin secretion (9,10). Mutations in the <i>KCNJ6</i> gene encoding GIRK2 are associated with Keppen-Lubinsky Syndrome, a rare disease characterized by severe developmental delay, facial dysmorphism, and intellectual disability (11).					
Background Referen	1. Lesage, F. et al. (1995) <i>J Biol Chem</i> 270, 28660-7. 2. Kubo, Y. et al. (1993) <i>Nature</i> 364, 802-6. 3. Krapivinsky, G. et al. (1995) <i>Nature</i> 374, 135-41. 4. Isomoto, S. et al. (1997) <i>Jpn J Physiol</i> 47, 11-39. 5. Duprat, F. et al. (1995) <i>Biochem Biophys Res Commun</i> 212, 657-63. 6. Corey, S. and Clapham, D.E. (1998) <i>J Biol Chem</i> 273, 27499-504. 7. Han, J. et al. (2003) <i>J Physiol</i> 550, 693-706. 8. Nockemann, D. et al. (2013) <i>EMBO Mol Med</i> 5, 1263-77. 9. Ferrer, J. et al. (1995) <i>J Biol Chem</i> 270, 26086-91. 10. Sakura, H. et al. (1995) <i>FEBS Lett</i> 367, 193-7. 11. Masotti, A. et al. (2015) <i>Am J Hum Genet</i> 96, 295-300.						

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

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

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

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