#25797 Store at -20C

GIRK2 (D6C2T) Rabbit mAb



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Applications: 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	We	plication stern Blotting nunoprecipitation			Dilution 1:1000 1:50	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.				
Specificity / Sensitivity		GIRK2 (D6C2T) Rabbit mAb recognizes endogenous levels of total GIRK2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg46 of human GIRK2 protein.				
Background	GIR cent 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 Refere	2. K 3. K 4. Is 5. D 6. C 7. H 8. N 9. F 10. S	 Lesage, F. et al. (1995) J Biol Chem 270, 28660-7. Kubo, Y. et al. (1993) Nature 364, 802-6. Krapivinsky, G. et al. (1995) Nature 374, 135-41. Isomoto, S. et al. (1997) Jpn J Physiol 47, 11-39. Duprat, F. et al. (1995) Biochem Biophys Res Commun 212, 657-63. Corey, S. and Clapham, D.E. (1998) J Biol Chem 273, 27499-504. Han, J. et al. (2003) J Physiol 550, 693-706. Nockemann, D. et al. (2013) EMBO Mol Med 5, 1263-77. Ferrer, J. et al. (1995) J Biol Chem 270, 26086-91. Sakura, H. et al. (1995) FEBS Lett 367, 193-7. Masotti, A. et al. (2015) Am J Hum Genet 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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Limited Uses

GIRK2 (D6C2T) Rabbit mAb (#25797) Datasheet Without Images Cell Signaling Technology

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