## ធ្លុង GIRK2 (D6C2T) Rabbit mAb





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Applications: W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 46	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P48051	Entrez-Gene Id: 3763		
Product Usage Information	2	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 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/Sen	sitivity	GIRK2 (D6C2T) Rabbit mAb recognizes endogenous levels of total GIRK2 protein.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg46 of human GIRK2 protein.						
Background		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 $\beta$ 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 R	eferences	<ol> <li>Lesage, F. et al. (1995) <i>J Biol Chem</i> 270, 28660-7.</li> <li>Kubo, Y. et al. (1993) <i>Nature</i> 364, 802-6.</li> <li>Krapivinsky, G. et al. (1995) <i>Nature</i> 374, 135-41.</li> <li>Isomoto, S. et al. (1997) <i>Jpn J Physiol</i> 47, 11-39.</li> <li>Duprat, F. et al. (1995) <i>Biochem Biophys Res Commun</i> 212, 657-63.</li> <li>Corey, S. and Clapham, D.E. (1998) <i>J Biol Chem</i> 273, 27499-504.</li> <li>Han, J. et al. (2003) <i>J Physiol</i> 550, 693-706.</li> <li>Nockemann, D. et al. (2013) <i>EMBO Mol Med</i> 5, 1263-77.</li> <li>Ferrer, J. et al. (1995) <i>J Biol Chem</i> 270, 26086-91.</li> <li>Sakura, H. et al. (1995) <i>FEBS Lett</i> 367, 193-7.</li> <li>Masotti, A. et al. (2015) <i>Am J Hum Genet</i> 96, 295-300.</li> </ol>						
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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