

Goat Anti-GIRK2 / KCNJ6 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1481a**Specification**

Goat Anti-GIRK2 / KCNJ6 Antibody - Product Information

Application	WB
Primary Accession	P48051
Other Accession	NP_002231 , 3763 , 16522 (mouse) , 25743 (rat)
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	48451

Goat Anti-GIRK2 / KCNJ6 Antibody - Additional Information**Gene ID** 3763**Other Names**

G protein-activated inward rectifier potassium channel 2, GIRK-2, BIR1, Inward rectifier K(+) channel Kir3.2, KATP-2, Potassium channel, inwardly rectifying subfamily J member 6, KCNJ6, GIRK2, KATP2, KCNJ7

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-GIRK2 / KCNJ6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-GIRK2 / KCNJ6 Antibody - Protein Information**Name** KCNJ6**Synonyms** GIRK2, KATP2, KCNJ7**Function**

This potassium channel may be involved in the regulation of insulin secretion by glucose and/or neurotransmitters acting through G- protein-coupled receptors. Inward rectifier potassium

channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the concentration of extracellular potassium; as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium.

Cellular Location

Membrane; Multi-pass membrane protein.

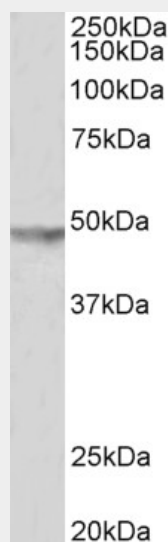
Tissue Location

Most abundant in cerebellum, and to a lesser degree in islets and exocrine pancreas

Goat Anti-GIRK2 / KCNJ6 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-GIRK2 / KCNJ6 Antibody - Images

AF1481a (2 µg/ml) staining of Human Brain (Substantia Nigra) lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-GIRK2 / KCNJ6 Antibody - Background

Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins and may be involved in the regulation of insulin secretion by glucose. It associates with two other

G-protein-activated potassium channels to form a heteromultimeric pore-forming complex.

Goat Anti-GIRK2 / KCNJ6 Antibody - References

L-type voltage-dependent calcium channel alpha subunit 1C is a novel candidate gene associated with secondary hyperparathyroidism: an application of haplotype-based analysis for multiple linked single nucleotide polymorphisms. Yokoyama K, et al. Nephron Clin Pract, 2010. PMID 20424473.

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A KCNJ6 (Kir3.2, GIRK2) gene polymorphism modulates opioid effects on analgesia and addiction but not on pupil size. L tsch J, et al. Pharmacogenet Genomics, 2010 May. PMID 20220551.

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Genetic utility of broadly defined bipolar schizoaffective disorder as a diagnostic concept. Hamshire ML, et al. Br J Psychiatry, 2009 Jul. PMID 19567891.