

**KCNJ3 Antibody (C-term)**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM1995b****Specification**

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**KCNJ3 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P48549</a>
Other Accession	<a href="#">P63251</a> , <a href="#">P63250</a> , <a href="#">E1BNE9</a> , <a href="#">NP_002230.1</a>
Reactivity	Human, Mouse
Predicted	Bovine, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Calculated MW	56603
Antigen Region	390-418

**KCNJ3 Antibody (C-term) - Additional Information****Gene ID** 3760**Other Names**

G protein-activated inward rectifier potassium channel 1, GIRK-1, Inward rectifier K(+) channel Kir31, Potassium channel, inwardly rectifying subfamily J member 3, KCNJ3, GIRK1

**Target/Specificity**

This KCNJ3 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 390-418 amino acids from the C-terminal region of human KCNJ3.

**Dilution**

WB~~1:100~1000

E~~Use at an assay dependent concentration.

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS.

**Storage**

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

**Precautions**

KCNJ3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**KCNJ3 Antibody (C-term) - Protein Information****Name** KCNJ3

## Synonyms GIRK1

**Function** 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. This potassium channel is controlled by G proteins (PubMed:[8804710](#), PubMed:[8868049](#)). This receptor plays a crucial role in regulating the heartbeat (By similarity).

## Cellular Location

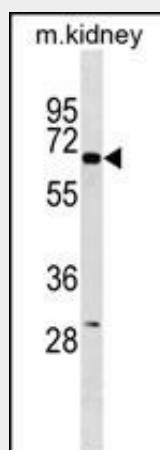
Membrane; Multi-pass membrane protein

## KCNJ3 Antibody (C-term) - 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](#)

## KCNJ3 Antibody (C-term) - Images



KCNJ3 Antibody (C-term) (Cat. #AM1995b ) western blot analysis in mouse kidney tissue lysates (35µg/lane). This demonstrates the KCNJ3 antibody detected the KCNJ3 protein (arrow).

## KCNJ3 Antibody (C-term) - 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 plays an important role in regulating heartbeat. It associates with three

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

### **KCNJ3 Antibody (C-term) - References**

Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) :  
Wagner, V., et al. J. Cell. Biochem. 110(3):598-608(2010)  
Holmegard, H.N., et al. Cardiology 115(3):176-181(2010)  
Rusinova, R., et al. Pflugers Arch. 458(2):303-314(2009)  
Robitaille, M., et al. Cell. Signal. 21(4):488-501(2009)