

# GIRK1/KCNJ3 Rabbit pAb

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Catalog # AP52214

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P48549</a>
<b>Reactivity</b>	Mouse, Rat
<b>Predicted</b>	Human, Dog, Pig, Rabbit, Guinea Pig
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	56603
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human GIRK1
<b>Epitope Specificity</b>	81-180/501
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Membrane; Multi-pass membrane protein.
<b>SIMILARITY</b>	Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ3 subfamily.
<b>SUBUNIT</b>	Associates with GIRK2, GIRK3 or GIRK4 to form a G-protein activated heteromultimer pore-forming unit. The resulting inward current is much larger.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	This potassium channel is controlled by G proteins. 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 receptor plays a crucial role in regulating the heartbeat.

## Additional Information

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<b>Gene ID</b>	3760
<b>Other Names</b>	G protein-activated inward rectifier potassium channel 1, GIRK-1, Inward rectifier K(+) channel Kir3.1, Potassium channel, inwardly rectifying subfamily J member 3, KCNJ3, GIRK1
<b>Dilution</b>	WB=1:500-2000
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

## Protein Information

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<b>Name</b>	KCNJ3
<b>Synonyms</b>	GIRK1
<b>Function</b>	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: <a href="#">8804710</a> , PubMed: <a href="#">8868049</a> ). This receptor plays a crucial role in regulating the heartbeat (By similarity).
<b>Cellular Location</b>	Membrane; Multi-pass membrane protein

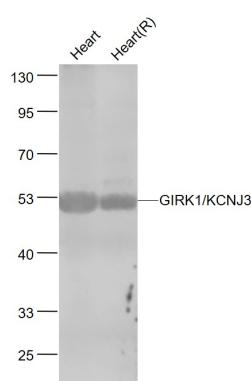
## Background

This potassium channel is controlled by G proteins. 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 receptor plays a crucial role in regulating the heartbeat.

## References

Chan K.W.,et al.J. Gen. Physiol. 107:381-397(1996).  
Schoots O.,et al.Brain Res. Mol. Brain Res. 39:23-30(1996).  
Wagner V.,et al.Submitted (OCT-2009) to the EMBL/GenBank/DDBJ databases.  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Hillier L.W.,et al.Nature 434:724-731(2005).

## Images



Sample:  
Heart (Mouse) Lysate at 40 ug  
Heart (Rat) Lysate at 40 ug  
Primary: Anti- GIRK1'KCNJ3 (AP52214) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 55 kD  
Observed band size: 53 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.