

**Anti-Kir3.1 Antibody**  
**Rabbit polyclonal antibody to Kir3.1**  
**Catalog # AP60579****Specification**

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**Anti-Kir3.1 Antibody - Product Information**

Application	<b>WB, IF</b>
Primary Accession	<a href="#">P48549</a>
Other Accession	<a href="#">P63250</a>
Reactivity	<b>Human, Mouse, Rat, Chicken, Bovine</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>56603</b>

**Anti-Kir3.1 Antibody - Additional Information****Gene ID** 3760**Other Names**

GIRK1; G protein-activated inward rectifier potassium channel 1; GIRK-1; Inward rectifier K(+) channel Kir3.1; Potassium channel, inwardly rectifying subfamily J member 3

**Target/Specificity**

Recognizes endogenous levels of Kir3.1 protein.

**Dilution**WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500)  
IF~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500)**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-Kir3.1 Antibody - 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:<a href="http://www.uniprot.org/citations/8804710" target="\_blank">8804710</a>,  
PubMed:<a href="http://www.uniprot.org/citations/8868049" target="\_blank">8868049</a>).  
This receptor plays a crucial role in regulating the heartbeat (By similarity).

#### Cellular Location

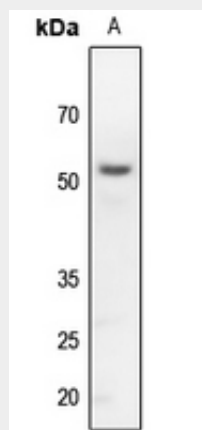
Membrane; Multi-pass membrane protein

#### Anti-Kir3.1 Antibody - Protocols

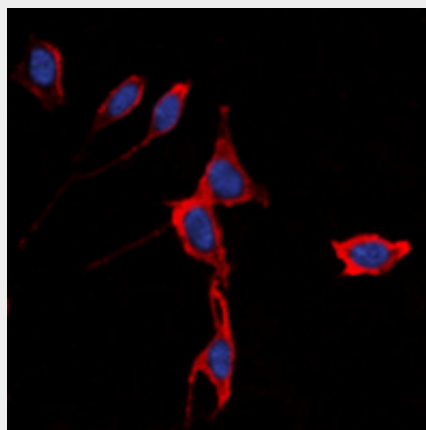
Provided below are standard protocols that you may find useful for product applications.

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

#### Anti-Kir3.1 Antibody - Images



Western blot analysis of Kir3.1 expression in mouse brain (A) whole cell lysates.



Immunofluorescent analysis of Kir3.1 staining in K562 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for

30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

#### **Anti-Kir3.1 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Kir3.1. The exact sequence is proprietary.