10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Kir3.1 Antibody

Rabbit polyclonal antibody to Kir3.1

Catalog # AP60579

Specification

Anti-Kir3.1 Antibody - Product Information

Application	**WB, IF/IC**
Primary Accession	P48549
Other Accession	P63250
Reactivity	**Human, Mouse, Rat, Chicken, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**56603**

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

Dilution
WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500)
IF/IC~~N/A

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:8804710, PubMed:8868049). This receptor plays a crucial role in regulating the heartbeat (By similarity).

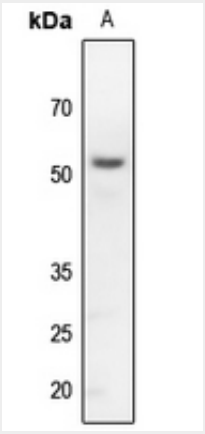
Cellular Location
Membrane; Multi-pass membrane protein

Anti-Kir3.1 Antibody - Protocols

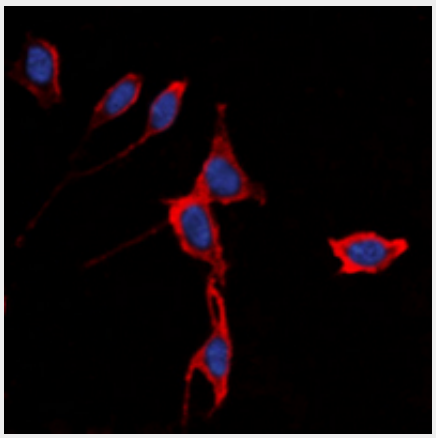
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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 hidified 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.