

# **KIR2.1 Polyclonal Antibody**

Catalog # AP70656

# **Specification**

# **KIR2.1 Polyclonal Antibody - Product Information**

Application WB, IHC-P
Primary Accession P63252
Reactivity Human, Rat
Host Rabbit
Clonality Polyclonal

# KIR2.1 Polyclonal Antibody - Additional Information

#### **Gene ID 3759**

### **Other Names**

KCNJ2; IRK1; Inward rectifier potassium channel 2; Cardiac inward rectifier potassium channel; Inward rectifier K(+) channel Kir2.1; IRK-1; hIRK1; Potassium channel; inwardly rectifying subfamily J member 2

# **Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. IHC-P~ $\sim$ N/A

#### **Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

# **Storage Conditions**

-20°C

# KIR2.1 Polyclonal Antibody - Protein Information

# Name KCNJ2

#### Synonyms IRK1

#### **Function**

Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it (PubMed:<a

href="http://www.uniprot.org/citations/36149965" target="\_blank">36149965</a>, PubMed:<a href="http://www.uniprot.org/citations/7590287" target="\_blank">7590287</a>, PubMed:<a href="http://www.uniprot.org/citations/9490857" target="\_blank">9490857</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/7590287" target="\_blank">7590287</a>, PubMed:<a href="http://www.uniprot.org/citations/7696590" target="\_blank">7696590</a>). The inward rectification is mainly due to the blockage of outward current by internal magnesium (PubMed:<a



Tel: 858.875.1900 Fax: 858.875.1999

href="http://www.uniprot.org/citations/9490857" target="\_blank">9490857</a>). Can be blocked by extracellular barium or cesium (PubMed:<a href="http://www.uniprot.org/citations/7590287" target="\_blank">7590287</a>, PubMed:<a href="http://www.uniprot.org/citations/7696590" target="\_blank">7696590</a>). Probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues (PubMed:<a href="http://www.uniprot.org/citations/7590287" target="\_blank">7590287</a>, PubMed:<a href="http://www.uniprot.org/citations/7696590" target="\_blank">7696590</a>, PubMed:<a href="http://www.uniprot.org/citations/7840300" target="\_blank">7840300</a>).

### **Cellular Location**

Cell membrane; Multi-pass membrane protein Cell membrane, sarcolemma, T-tubule {ECO:0000250|UniProtKB:Q64273}

#### **Tissue Location**

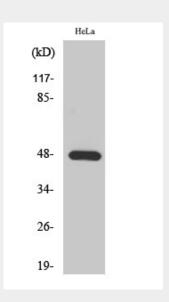
Heart, brain, placenta, lung, skeletal muscle, and kidney. Diffusely distributed throughout the brain

#### KIR2.1 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

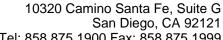
#### KIR2.1 Polyclonal Antibody - Images



Western Blot analysis of various cells using KIR2.1 Polyclonal Antibody diluted at 1□500

# KIR2.1 Polyclonal Antibody - Background

Probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues. Inward rectifier potassium channels are characterized by a greater tendency to





Tel: 858.875.1900 Fax: 858.875.1999

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. Can be blocked by extracellular barium or cesium.