

**Kir2.1 Antibody**  
**Rabbit mAb**  
**Catalog # AP92549****Specification**

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**Kir2.1 Antibody - Product Information**

|                                                                        |                        |
|------------------------------------------------------------------------|------------------------|
| Application                                                            | WB, IHC, ICC           |
| Primary Accession                                                      | <a href="#">P63252</a> |
| Reactivity                                                             | Rat                    |
| Clonality                                                              | Monoclonal             |
| <b>Other Names</b>                                                     |                        |
| KCNJ2; ATFB9; HHBIRK1; IRK1; KIR2.1; LQT7; HIRK1; IRK-1; HHIRK1; SQT3; |                        |
| Isotype                                                                | Rabbit IgG             |
| Host                                                                   | Rabbit                 |
| Calculated MW                                                          | 48288 Da               |

**Kir2.1 Antibody - Additional Information**

|                              |                                                                                                                                                                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dilution                     | WB~~1:1000<br>IHC~~1:100~500<br>ICC~~N/A                                                                                                                                                                                                                     |
| Purification                 | Affinity-chromatography                                                                                                                                                                                                                                      |
| Immunogen                    | A synthesized peptide derived from human Kir2.1                                                                                                                                                                                                              |
| Description                  | 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 allow potassium to flow into the cell rather than out of it. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.                                                                            |

**Kir2.1 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/7590287" target="\_blank">7590287</a>)

[9490857](http://www.uniprot.org/citations/9490857)). 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:[7590287](http://www.uniprot.org/citations/7590287), PubMed:[7696590](http://www.uniprot.org/citations/7696590)). The inward rectification is mainly due to the blockage of outward current by internal magnesium (PubMed:[9490857](http://www.uniprot.org/citations/9490857)). Can be blocked by extracellular barium or cesium (PubMed:[7590287](http://www.uniprot.org/citations/7590287), PubMed:[7696590](http://www.uniprot.org/citations/7696590)). Probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues (PubMed:[7590287](http://www.uniprot.org/citations/7590287), PubMed:[7696590](http://www.uniprot.org/citations/7696590), PubMed:[7840300](http://www.uniprot.org/citations/7840300)).

### Cellular Location

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

### Tissue Location

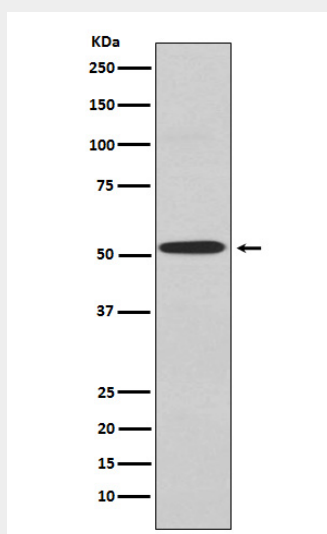
Heart, brain, placenta, lung, skeletal muscle, and kidney. Diffusely distributed throughout the brain

## Kir2.1 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](#)

## Kir2.1 Antibody - Images



Western blot analysis of Kir2.1 expression in A549 cell lysate.