

# KIR2.1 Polyclonal Antibody

Catalog # AP70656

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">P63252</a>
<b>Reactivity</b>	Human, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	48288

## Additional Information

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<b>Gene ID</b>	3759
<b>Other Names</b>	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
<b>Dilution</b>	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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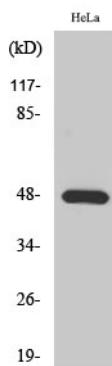
<b>Name</b>	KCNJ2
<b>Synonyms</b>	IRK1
<b>Function</b>	Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it (PubMed: <a href="#">36149965</a> , PubMed: <a href="#">7590287</a> , PubMed: <a href="#">9490857</a> ). Their 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="#">7590287</a> , PubMed: <a href="#">7696590</a> ). The inward rectification is mainly due to the blockage of outward current by internal magnesium (PubMed: <a href="#">9490857</a> ). Can be blocked by extracellular barium or cesium (PubMed: <a href="#">7590287</a> , PubMed: <a href="#">7696590</a> ). Probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues (PubMed: <a href="#">7590287</a> , PubMed: <a href="#">7696590</a> , PubMed: <a href="#">7840300</a> ).
<b>Cellular Location</b>	Cell membrane; Multi-pass membrane protein Cell membrane, sarcolemma,

**Tissue Location**

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

**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 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.

**Images**

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

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