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Kir2.1 Antibody

Rabbit mAb
Catalog # AP92549

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P63252
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	KCNJ2; ATFB9; HHBIRK1; IRK1; KIR2.1; LQT7; HIRK1; IRK-1; HHIRK1; SQT3;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	48288

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
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.

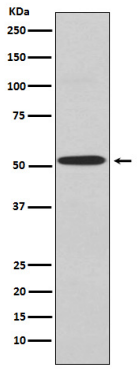
Protein Information

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:36149965, PubMed:7590287, PubMed: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, PubMed:7696590). The inward rectification is mainly due to the blockage of outward current by internal magnesium (PubMed:9490857). Can be blocked by extracellular barium or cesium (PubMed:7590287, PubMed:7696590). Probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues (PubMed:7590287, PubMed:7696590, PubMed: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

Images



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