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

Anti-Kir2.1 Antibody

Rabbit polyclonal antibody to Kir2.1
Catalog # AP60474

Product Information

Application	WB
Primary Accession	P63252
Other Accession	P35561
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48288

Additional Information

Gene ID	3759
Other Names	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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Kir2.1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
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

Protein Information

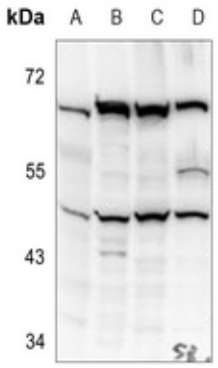
Name	KCNJ2
Synonyms	IRK1
Function	Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it (PubMed:36149965, PubMed:7590287, PubMed:9490857). Their voltage dependence is regulated by the concentration of extracellular potassium; 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

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Kir2.1. The exact sequence is proprietary.

Images



Western blot analysis of Kir2.1 expression in BV2 (A), PC12 (B), A549 (C), U87MG (D) whole cell lysates.