

KIR2.3 Polyclonal Antibody

Catalog # AP70657

Product Information

Application	WB, E, IHC-P
Primary Accession	P48050
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49500

Additional Information

Gene ID	3761
Other Names	KCNJ4; IRK3; Inward rectifier potassium channel 4; HIRK2; HRK1; Hippocampal inward rectifier; HIR; Inward rectifier K(+) channel Kir2.3; IRK-3; Potassium channel; inwardly rectifying subfamily J member 4
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications. E~~N/A IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

Protein Information

Name	KCNJ4
Synonyms	IRK3
Function	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 and cesium.
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:P52189}; Multi-pass membrane protein. Postsynaptic cell membrane {ECO:0000250 UniProtKB:P52189}; Multi-pass membrane protein. Cytoplasmic vesicle membrane {ECO:0000250 UniProtKB:P52189}. Note=TAX1BP3 binding promotes dissociation of KCNJ4 from LIN7 family members and KCNJ4 internalization. {ECO:0000250 UniProtKB:P52189}

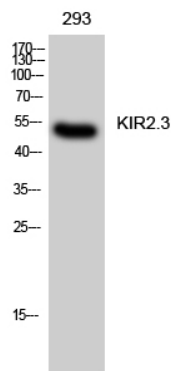
Tissue Location

Heart, skeletal muscle, and several different brain regions including the hippocampus

Background

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 and cesium (By similarity).

Images



Western Blot analysis of 293 cells using KIR2.3 Polyclonal Antibody

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