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Anti-Kir2.3 Antibody

Catalog # AP61119

Product Information

Application	WB, IF/IC
Primary Accession	P48050
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49500

Additional Information

Gene ID	3761
Other Names	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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Kir2.3. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

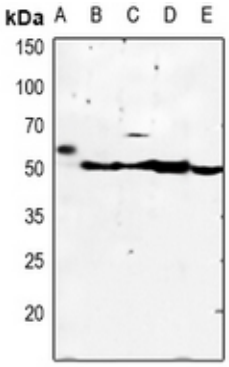
Protein Information

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

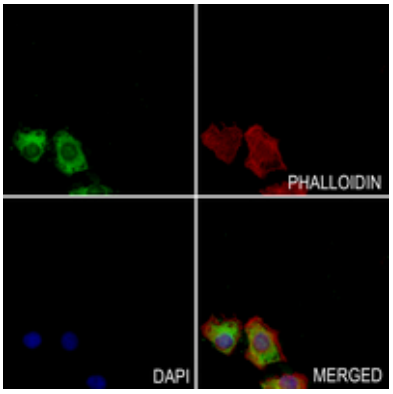
dissociation of KCNJ4 from LIN7 family members and KCNJ4 internalization. {ECO:0000250|UniProtKB:P52189}

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

Images



Western blot analysis of Kir2.3 expression in HEK293T (A), Hela (B), mouse heart (C), mouse brain (D), rat brain (E) whole cell lysates. (Predicted band size: 49 kD; Observed band size: 50 kD)



Immunofluorescent analysis of Kir2.3 staining in SGC7901 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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