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Product datasheet for TA504210M

GIRK1 (KCNJ3) Mouse Monoclonal Antibody [Clone ID: OTI2E4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2E4
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:500, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 279-501 of human KCNJ3(NP_002230) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.66 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	56.4 kDa
Gene Name:	potassium inwardly rectifying channel subfamily J member 3
Database Link:	NP_002230 Entrez Gene 16519 MouseEntrez Gene 50599 RatEntrez Gene 3760 Human P48549

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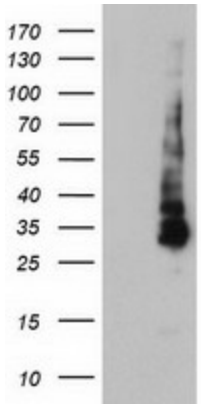
Background: Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins and plays an important role in regulating heartbeat. It associates with three other G-protein-activated potassium channels to form a heteromultimeric pore-forming complex. [provided by RefSeq]

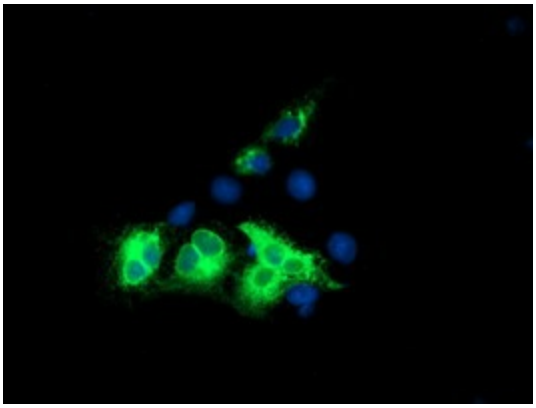
Synonyms: GIRK1; KGA; KIR3.1

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

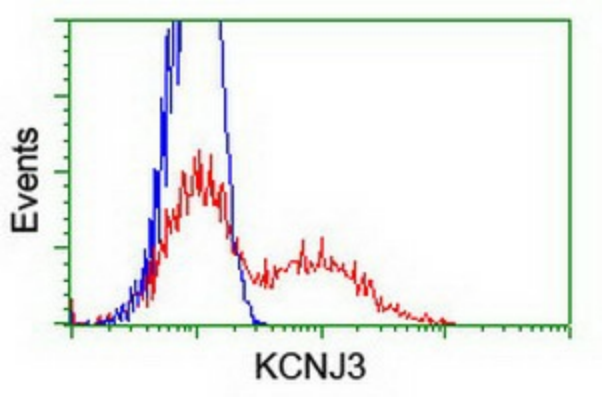
Product images:



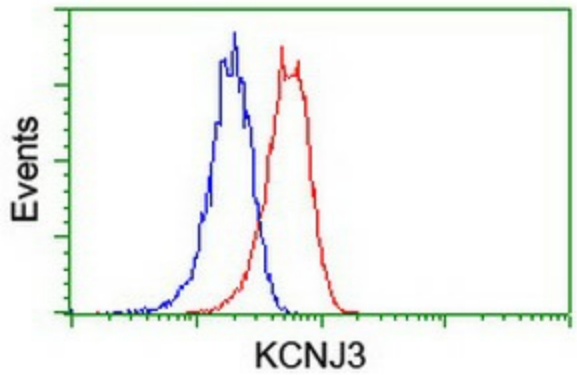
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY KCNJ3 ([RC205322], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KCNJ3. Positive lysates [LY400811] (100ug) and [LC400811] (20ug) can be purchased separately from OriGene.



Anti-KCNJ3 mouse monoclonal antibody ([TA504210]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY KCNJ3 ([RC205322]).



HEK293T cells transfected with either [RC205322] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-KCNJ3 antibody ([TA504210]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-KCNJ3 antibody ([TA504210]), (Red), compared to a nonspecific negative control antibody, (Blue).