

## Product datasheet for **CF504210**

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

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI2E4
<b>Applications:</b>	FC, IF, WB
<b>Recommended Dilution:</b>	WB 1:500, IF 1:100, FLOW 1:100
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Human recombinant protein fragment corresponding to amino acids 279-501 of human KCNJ3(NP_002230) produced in E.coli.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	56.4 kDa
<b>Gene Name:</b>	potassium inwardly rectifying channel subfamily J member 3
<b>Database Link:</b>	<a href="#">NP_002230</a> <a href="#">Entrez Gene 16519 Mouse</a> <a href="#">Entrez Gene 50599 Rat</a> <a href="#">Entrez Gene 3760 Human</a> <a href="#">P48549</a>



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**Background:**

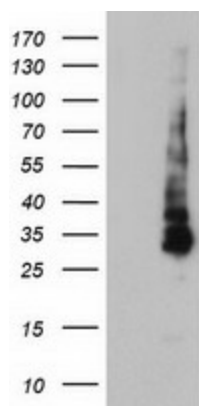
Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. The encoded protein, which has a greater tendency to allow potassium to 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:**

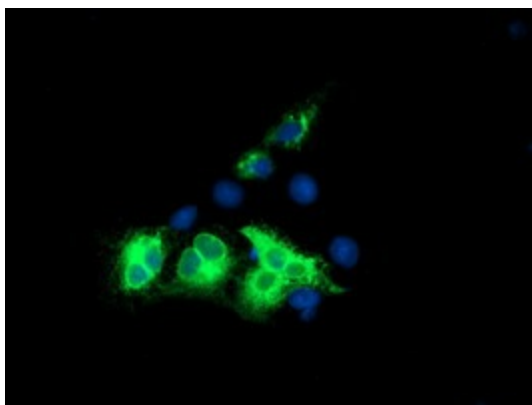
GIRK1; KGA; KIR3.1

**Protein Families:**

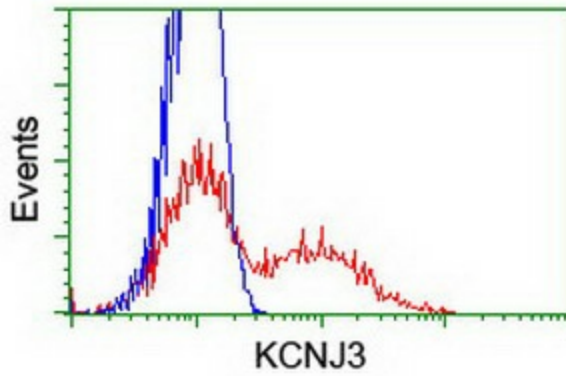
Druggable Genome, Ion Channels: Potassium, Transmembrane

**Product images:**

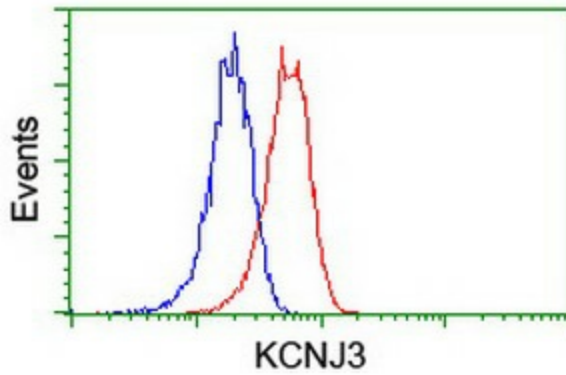
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY KCNJ3 ([RC205322], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-KCNJ3. Positive lysates [LY400811] (100ug) and [LC400811]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