KCNJ3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KCNJ3, Polyclonal Antibody
Full Product Name	KCNJ3 Antibody, FITC conjugated
Product Gene Name	anti-KCNJ3 antibody
Product Synonym Names	G protein-activated inward rectifier potassium channel 1; GIRK-1; Inward rectifier K(+) channel Kir3.1; Potassium channel; inwardly rectifying subfamily J member 3; KCNJ3; GIRK1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: KCNJ3 (MBS7048512) FITC Conjugated Antibody: KCNJ3 (MBS7048514)
Molecular Weight	26,829 Da
OMIM	U39196 mRNA
3D Structure	ModBase 3D Structure for P48549
Immunogen	Recombinant Human G protein-activated inward rectifier potassium channel 1 protein (350-487AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Conjugation	FITC
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-16131 / sc-22926 / sc-50410
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-KCNJ3 antibody	ELISA (EIA)
Related Product Information for anti-KCNJ3 antibody	This potassium channel is controlled by G proteins. 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. This receptor plays a crucial role in regulating the heartbeat.
Other Notes	Small volumes of anti-KCNJ3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KCNJ3 purchase	MBS7048514 is an antibody targeting KCNJ3. Also known as KCNJ3 Antibody, FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCNJ3. It may not necessarily be applicable to this product.

NCBI GI #	386781846
NCBI GeneID	3760
NCBI Accession #	NP_001247437.1
UniProt Primary Accession #	P48549
UniProt Secondary Accession #	Q8TBI0; B4DEW7
UniProt Related Accession #	P48549
GenBank Nucleotide #	NM_001260508.1
NCBI Official Full Name	G protein-activated inward rectifier potassium channel 1 isoform 2
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily J member 3
NCBI Official Symbol	KCNJ3
NCBI Official Synonym Symbols	KGA; GIRK1; KIR3.1
UniProt Protein Name	G protein-activated inward rectifier potassium channel 1
UniProt Synonym Protein Names	Inward rectifier K(+) channel Kir3.1; Potassium channel, inwardly rectifying subfamily J member 3
Protein Family	G protein-activated inward rectifier potassium channel
UniProt Gene Name	KCNJ3
UniProt Synonym Gene Names	GIRK1; GIRK-1
UniProt Entry Name	KCNJ3_HUMAN
NCBI Protein Information	G protein-activated inward rectifier potassium channel 1
NCBI Summary for KCNJ3	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 that also couples to neurotransmitter receptors in the brain and whereby channel activation can inhibit action potential firing by hyperpolarizing the plasma membrane. These multimeric G-protein-gated inwardly-rectifying potassium (GIRK) channels may play a role in the pathophysiology of epilepsy, addiction, Down's syndrome, ataxia, and Parkinson's disease. Alternative splicing results in multiple transcript variants encoding distinct proteins. [provided by RefSeq, May 2012]
UniProt Comments for KCNJ3	GIRK1: This potassium channel is controlled by G proteins. 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. This receptor plays a crucial role in regulating the heartbeat. Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ3 subfamily. Protein type: Channel, potassium; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 2q24.1 Cellular Component: plasma membrane; voltage-gated potassium channel complex Molecular Function: G-protein activated inward rectifier potassium channel activity; inward rectifier potassium channel activity; protein binding Biological Process: potassium ion import; potassium ion transport

Research Articles on KCNJ3	**1.** The findings of this study suggest that variations in KCNJ3 genes are associated with both mild and severe persistent breast pain after breast cancer surgery.
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