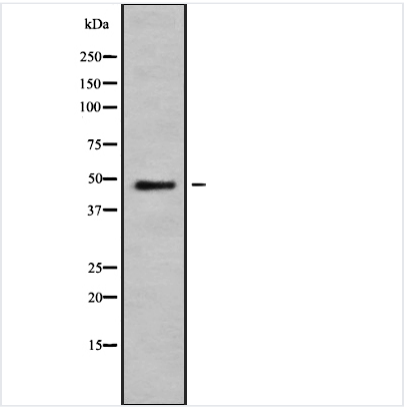
KCNJ2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KCNJ2, Polyclonal Antibody
Full Product Name	KCNJ2 Antibody
Product Gene Name	anti-KCNJ2 antibody
Product Synonym Names	Cardiac inward rectifier potassium channel; HHBIRK 1; HHBIRK1; HHIRK 1; HHIRK1; HIRK 1; hIRK1; Inward rectifier K; Inward rectifier K(+) channel Kir2.1; Inward rectifier potassium channel 2; inwardly rectifying subfamily J member 2; IRK 1; IRK-1; IRK1; IRK2_HUMAN; KCNJ2; KIR2.1; LQT 7; LQT7; Potassium channel; Potassium channel inwardly rectifying subfamily J member 2; Potassium inwardly rectifying channel J2; Potassium inwardly rectifying channel subfamily J member 2; SQT 3; SQT3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	KCNJ2 antibody detects endogenous levels of total KCNJ2
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	KCNJ2 peptide (MBS9627281) is used for blocking the activity of KCNJ2 antibody (MBS9608569)
Molecular Weight	Observed: 48 kDa Predicted: 49 kDa
3D Structure	ModBase 3D Structure for P63252
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human KCNJ2
Subcellular Location	Membrane.
Tissue Specificity	Heart, brain, placenta, lung, skeletal muscle, and kidney. Diffusely distributed throughout the brain.
Predicted Cross Reactivity	**Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken**
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (94%), Chicken (87%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-KCNJ2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-KCNJ2 antibody	WB: 1:1000-3000

Related Product Information for anti-KCNJ2 antibody	Function: Probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues. 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 or cesium. Subunit Structure: Homomultimeric and heteromultimeric association with KCNJ4/Kir2.3. Association, via its PDZ-recognition domain, with LIN7A, LIN7B, LIN7C, DLG1, CASK and APBA1 plays a key role in its localization and trafficking (By similarity). Post-translational Modifications: S-nitrosylation increases the open probability and inward rectifying currents. Similarity: Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ2 subfamily.
Other Notes	Small volumes of anti-KCNJ2 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 KCNJ2 purchase	MBS9608569 is an antibody targeting KCNJ2. Also known as KCNJ2 Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-KCNJ2 antibody
Western blot analysis of KCNJ2 using LOVO whole cell lysates

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCNJ2. It may not necessarily be applicable to this product.

NCBI GI #	4504835
NCBI GeneID	3759
NCBI Accession #	NP_000882.1
UniProt Primary Accession #	P63252
UniProt Secondary Accession #	O15110; P48049
UniProt Related Accession #	P63252
GenBank Nucleotide #	NM_000891.2
NCBI Official Full Name	inward rectifier potassium channel 2
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily J member 2
NCBI Official Symbol	KCNJ2
NCBI Official Synonym Symbols	IRK1; LQT7; SQT3; ATFB9; HHIRK1; KIR2.1; HHBIRK1
UniProt Protein Name	Inward rectifier potassium channel 2
UniProt Synonym Protein Names	Cardiac inward rectifier potassium channel; Inward rectifier K(+) channel Kir2.1; IRK-1; hIRK1; Potassium channel, inwardly rectifying subfamily J member 2
Protein Family	Inward rectifier potassium channel

UniProt Gene Name	KCNJ2
UniProt Synonym Gene Names	IRK1; IRK-1; hIRK1
NCBI Protein Information	inward rectifier potassium channel 2
NCBI Summary for KCNJ2	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, probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues. Mutations in this gene have been associated with Andersen syndrome, which is characterized by periodic paralysis, cardiac arrhythmias, and dysmorphic features. [provided by RefSeq, Jul 2008]
UniProt Comments for KCNJ2	Probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues. 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 or cesium.
Research Articles on KCNJ2	**1.** data show that hydrocinnamic acid can inhibit the currents of Kir2.1 channel in both excised inside-out and whole-cell patch with the IC50 of 5.21 +/- 1.02 and 10.08 +/- 0.46 mM, respectively.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/kcnj2/9608569