

**KCNJ12 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17654b****Specification**

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**KCNJ12 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q14500](#)**KCNJ12 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 3768**Other Names**

ATP-sensitive inward rectifier potassium channel 12, Inward rectifier K(+) channel Kir22, IRK-2, Inward rectifier K(+) channel Kir22v, Potassium channel, inwardly rectifying subfamily J member 12, KCNJ12, IRK2, KCNJN1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**KCNJ12 Antibody (C-term) Blocking Peptide - Protein Information****Name** KCNJ12**Synonyms** IRK2, KCNJN1**Function**

Inward rectifying potassium channel that is activated by phosphatidylinositol 4,5-bisphosphate and that probably participates in controlling the resting membrane potential in electrically excitable cells. 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.

**Cellular Location**

Membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

## **KCNJ12 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **KCNJ12 Antibody (C-term) Blocking Peptide - Images**

## **KCNJ12 Antibody (C-term) Blocking Peptide - Background**

This gene encodes an inwardly rectifying K<sup>+</sup> channel which may be blocked by divalent cations. This protein is thought to be one of multiple inwardly rectifying channels which contribute to the cardiac inward rectifier current (I<sub>K1</sub>). The gene is located within the Smith-Magenis syndrome region on chromosome 17.

## **KCNJ12 Antibody (C-term) Blocking Peptide - References**

Collins, A., et al. J. Cell. Physiol. 219(1):8-13(2009) Ji, W., et al. Nat. Genet. 40(5):592-599(2008) Panama, B.K., et al. J. Physiol. (Lond.) 571 (PT 2), 287-302 (2006) Kiesecker, C., et al. J. Mol. Med. 84(1):46-56(2006) Kubo, Y., et al. Pharmacol. Rev. 57(4):509-526(2005)