

**KCNJ11 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9209a****Specification**

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**KCNJ11 Antibody (N-term) - Product Information**

Application	FC, WB,E
Primary Accession	<a href="#">Q14654</a>
Other Accession	<a href="#">O02822</a> , <a href="#">Q61743</a>
Reactivity	Human, Mouse
Predicted	Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	43526
Antigen Region	1-30

**KCNJ11 Antibody (N-term) - Additional Information****Gene ID** 3767**Other Names**

ATP-sensitive inward rectifier potassium channel 11, IKATP, Inward rectifier K(+) channel Kir62, Potassium channel, inwardly rectifying subfamily J member 11, KCNJ11

**Target/Specificity**

This KCNJ11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human KCNJ11.

**Dilution**

FC~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

KCNJ11 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**KCNJ11 Antibody (N-term) - Protein Information**

**Name** KCNJ11

**Function** Inward rectifier potassium channel that forms the pore of ATP-sensitive potassium channels (KATP), regulating potassium permeability as a function of cytoplasmic ATP and ADP concentrations in many different cells (PubMed:[29286281](#), PubMed:[34815345](#)). 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 (By similarity). In pancreatic cells, it forms KATP channels with ABCC8/SUR1 (PubMed:[29286281](#), PubMed:[34815345](#)). Can form cardiac and smooth muscle-type KATP channels with ABCC9.

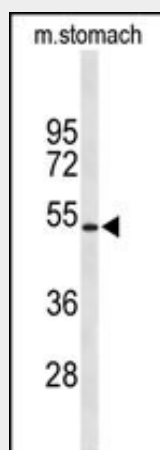
**Cellular Location**

Membrane; Multi-pass membrane protein.

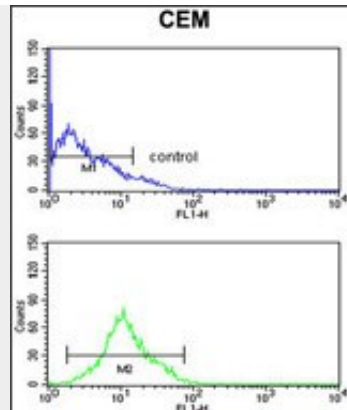
**KCNJ11 Antibody (N-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**KCNJ11 Antibody (N-term) - Images**

Western blot analysis of KCNJ11 Antibody (N-term) (Cat. #AP9209a) in mouse stomach tissue lysates (35ug/lane). KCNJ11 (arrow) was detected using the purified Pab.



KCNJ11 Antibody (N-term) (Cat. #AP9209a) flow cytometry analysis of CEM cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **KCNJ11 Antibody (N-term) - Background**

ATP-sensitive potassium (K(ATP)) channels are found in endocrine cells, neurons and both smooth and striated muscle, where they play an important role in controlling insulin secretion and vascular tone, and protect neurons under metabolic stress. Kir6.2 is a member of the inward rectifier potassium channel family, which is characterised by a greater tendency to allow potassium flow into the cell rather than out of it. It associates with the sulphonylurea receptor SUR1/ABCC8 to form a subfamily of K(ATP) channels that, when mutated or misregulated, are associated with forms of hyperinsulinemic hypoglycemia, neonatal diabetes, or pre-disposition to type 2 diabetes mellitus.