

**KCNJ8 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12302a****Specification**

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**KCNJ8 Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q15842</a>
Other Accession	<a href="#">Q63664</a> , <a href="#">P97794</a> , <a href="#">NP_004973.1</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	4-33

**KCNJ8 Antibody (N-term) - Additional Information****Gene ID** 3764**Other Names**

ATP-sensitive inward rectifier potassium channel 8, Inward rectifier K(+) channel Kir61, Potassium channel, inwardly rectifying subfamily J member 8, uKATP-1, KCNJ8

**Target/Specificity**

This KCNJ8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 4-33 amino acids from the N-terminal region of human KCNJ8.

**Dilution**

WB~~1:1000

IHC-P~~1:10~50

**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**

KCNJ8 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**KCNJ8 Antibody (N-term) - Protein Information****Name** KCNJ8

**Function** 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. Can be blocked by external barium (By similarity).

**Cellular Location**

Membrane; Multi-pass membrane protein

**Tissue Location**

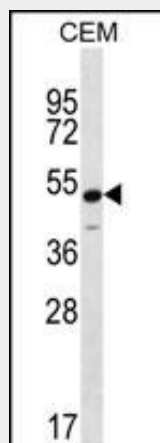
Predominantly detected in fetal and adult heart.

**KCNJ8 Antibody (N-term) - Protocols**

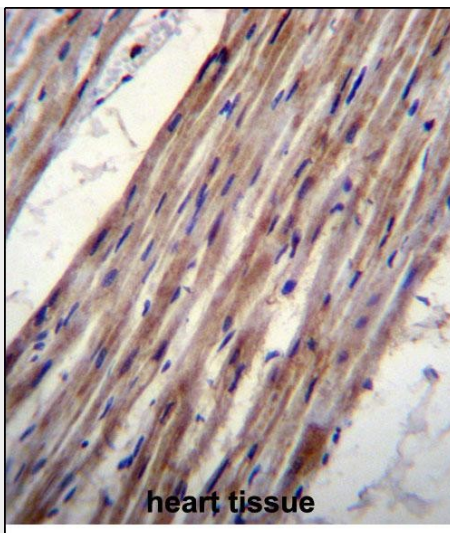
Provided below are standard protocols that you may find useful for product applications.

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

**KCNJ8 Antibody (N-term) - Images**



KCNJ8 Antibody (N-term) (Cat. #AP12302a) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the KCNJ8 antibody detected the KCNJ8 protein (arrow).



KCNJ8 Antibody (N-term) (Cat. #AP12302a) immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of KCNJ8 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **KCNJ8 Antibody (N-term) - 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. [provided by RefSeq].

#### **KCNJ8 Antibody (N-term) - References**

Medeiros-Domingo, A., et al. Heart Rhythm 7(10):1466-1471(2010)  
Ellis, J.A., et al. Physiol. Genomics 40(3):184-188(2010)  
Shi, W., et al. J. Biol. Chem. 285(5):3021-3029(2010)  
Winkler, M., et al. J. Biol. Chem. 284(11):6752-6762(2009)  
Ploug, K.B., et al. Eur. J. Pharmacol. 601 (1-3), 43-49 (2008) :