

# KCNJ8 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12302a

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">Q15842</a>
<b>Other Accession</b>	<a href="#">Q63664</a> , <a href="#">P97794</a> , <a href="#">NP_004973.1</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB31081
<b>Calculated MW</b>	47968
<b>Antigen Region</b>	4-33

## Additional Information

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<b>Gene ID</b>	3764
<b>Other Names</b>	ATP-sensitive inward rectifier potassium channel 8, Inward rectifier K(+) channel Kir61, Potassium channel, inwardly rectifying subfamily J member 8, uKATP-1, KCNJ8
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:2000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	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.
<b>Precautions</b>	KCNJ8 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	KCNJ8
<b>Function</b>	Inward rectifier potassium channels are characterized by a greater tendency

to allow potassium to flow into the cell rather than out of it (PubMed:[20558321](#), PubMed:[21836131](#), PubMed:[24700710](#), PubMed:[28842488](#)). 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 (PubMed:[20558321](#), PubMed:[21836131](#), PubMed:[24700710](#), PubMed:[28842488](#)). The inward rectification is mainly due to the blockage of outward current by internal magnesium. This channel is activated by internal ATP and can be blocked by external barium (PubMed:[20558321](#), PubMed:[21836131](#), PubMed:[24700710](#), PubMed:[28842488](#)). Can form a sulfonylurea-sensitive but ATP-insensitive potassium channel with ABCC9 (By similarity).

**Cellular Location** Membrane; Multi-pass membrane protein

**Tissue Location** Predominantly detected in fetal and adult heart.

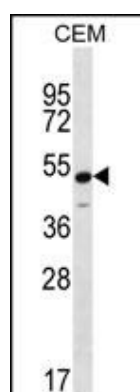
## Background

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].

## References

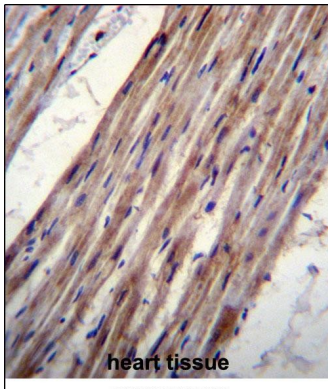
Medeiros-Domingo, A., et al. Heart Rhythm 7(10):1466-1471(2010)  
 Ellis, J.A., et al. Physiol. Genomics 40(3):184-188(2010)  
 Shi, W., et al. J. Biol. Chem. 285(5):3021-3029(2010)  
 Winkler, M., et al. J. Biol. Chem. 284(11):6752-6762(2009)  
 Ploug, K.B., et al. Eur. J. Pharmacol. 601 (1-3), 43-49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

## 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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.