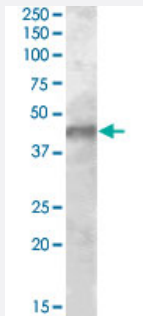


Kcnj11 polyclonal antibody

Catalog # PAB7571

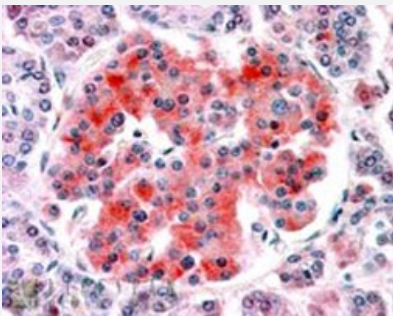
Size 100 ug

Applications



Western Blot (Tissue lysate)

Kcnj11 polyclonal antibody (Cat # PAB7571) (0.01 ug/mL) staining of human muscle lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Kcnj11 polyclonal antibody (Cat # PAB7571, 3.8 ug/mL) staining of paraffin embedded human pancreas. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of Kcnj11.
Immunogen	A synthetic peptide corresponding to human Kcnj11.
Sequence	ERRARFVSKKGNC
Host	Goat
Theoretical MW (kDa)	43.6
Reactivity	Human
Form	Liquid

Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:64000) Western blot (0.01-0.03 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (3-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — KCNJ11

Entrez GeneID	3767
Protein Accession#	NP_034732.1
Gene Name	KCNJ11
Gene Alias	BIR, HHF2, IKATP, KIR6.2, MGC133230, PHHI, TNDM3
Gene Description	potassium inwardly-rectifying channel, subfamily J, member 11
Omim ID	125853 600937 601820 606176 610582

Gene Ontology

[Hyperlink](#)

Gene Summary

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 and is found associated with the sulfonylurea receptor SUR. Mutations in this gene are a cause of familial persistent hyperinsulinemic hypoglycemia of infancy (PHHI), an autosomal recessive disorder characterized by unregulated insulin secretion. Defects in this gene may also contribute to autosomal dominant non-insulin-dependent diabetes mellitus type II (NIDDM), transient neonatal diabetes mellitus type 3 (TNDM3), and permanent neonatal diabetes mellitus (PNDM). [provided by RefSeq]

Other Designations

ATP-sensitive inward rectifier potassium channel 11|beta-cell inward rectifier subunit|inwardly rectifying potassium channel KIR6.2|potassium inwardly-rectifying channel J11

Publication Reference

- [Local potassium signaling couples neuronal activity to vasodilation in the brain.](#)

Filosa JA, Bonev AD, Straub SV, Meredith AL, Wilkerson MK, Aldrich RW, Nelson MT.

Nature Neuroscience 2006 Nov; 9(11):1397.

Pathway

- [Type II diabetes mellitus](#)

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Birth Weight](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)

- [Death](#)
- [Diabetes](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Edema](#)
- [Epilepsy](#)
- [Fetal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Glucose Metabolism Disorders](#)
- [HIV Infections](#)
- [Hyperglycemia](#)
- [Hyperinsulinism](#)
- [Hypertension](#)
- [Hypoglycemia](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Malnutrition](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)

- [Persistent Hyperinsulinemia Hypoglycemia of Infancy](#)
- [Polycystic Ovary Syndrome](#)
- [Prostatic Neoplasms](#)
- [Starvation](#)
- [Weight Gain](#)