

Rabbit KCNJ1 Polyclonal Antibody | anti-KCNJ1 antibody

KCNJ1 antibody - middle region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA197971	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish	Western Blot

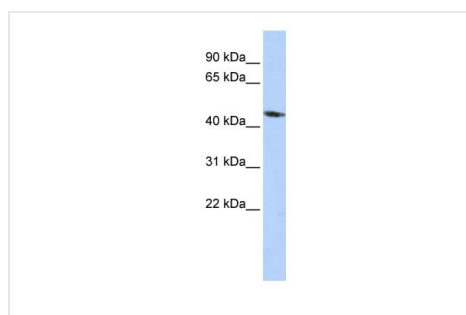
PRODUCT SYNONYMS

KCNJ1; Polyclonal Antibody; KCNJ1 antibody - middle region; anti-KCNJ1 antibody

PRODUCT SPECIFICATIONS

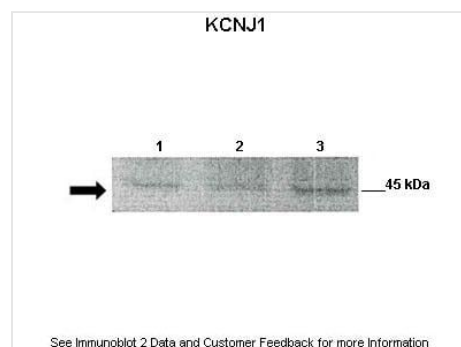
Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: LR KSLIGSHIY GKLLKTTVTP EGETIILDQI NINFVVDAGN ENLFFISP
Sequence Length	391
Applicable Applications for anti-KCNJ1 antibody	WB (Western Blot)
Homology	Cow: 86%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 93%; Rabbit: 100%; Rat: 100%; Zebrafish: 86%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human KCNJ1
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

WB Suggested Anti-KCNJ1 Antibody Titration: 0.2-1 ug/ml
 ELISA Titer: 1:31250
 Positive Control: HepG2 cell lysate



WB (Western Blot)

Lanes: Lane 1: 30ug mouse renal epithelial lysate
 Lane 2: 30ug mouse renal epithelial lysate
 Lane 3: 30ug mouse renal epithelial lysate
 Primary Antibody Dilution: 1:500
 Secondary Antibody: Anti-rabbit-HRP
 Secondary Antibody Dilution: 1:2500
 Gene Name: KCNJ1
 Submitted by: Dr. JUNMING FAN, ECU

ADDITIONAL INFORMATION

Related Product Information for anti-KCNJ1 antibody	This is a rabbit polyclonal antibody against KCNJ1. It was validated on Western Blot using a cell lysate as a positive control. Target Description: KCNJ1 has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Mutations in this gene have been associated with antenatal Bartter syndrome, which is characterized by salt wasting, hypokalemic alkalosis, hypercalciuria, and low blood pressure. Multiple transcript variants encoding different isoforms have been found for KCNJ1. 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. It is activated by internal ATP and probably plays an important role in potassium homeostasis. 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. It is activated by internal ATP and probably plays an important role in potassium homeostasis. The encoded protein has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Mutations in this gene have been associated with antenatal Bartter syndrome, which is characterized by salt wasting, hypokalemic alkalosis, hypercalciuria, and low blood pressure. Multiple transcript variants encoding different isoforms have been found for this gene.
Product Categories/Family for anti-KCNJ1 antibody	Polyclonal; Ion Channel; Membrane Protein; Disease Related

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504837
NCBI GeneID	3758
NCBI Accession #	NP_000211
NCBI GenBank Nucleotide #	NM_000220
UniProt Accession #	P48048
Molecular Weight	45kDa
NCBI Official Full Name	ATP-sensitive inward rectifier potassium channel 1 isoform a
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily J member 1
NCBI Official Symbol	KCNJ1
NCBI Official Synonym Symbols	ROMK; ROMK1; KIR1.1
NCBI Protein Information	ATP-sensitive inward rectifier potassium channel 1
UniProt Protein Name	ATP-sensitive inward rectifier potassium channel 1
UniProt Gene Name	KCNJ1
UniProt Synonym Gene Names	ROMK1
UniProt Entry Name	IRK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.