

Rabbit KCNJ10 Polyclonal Antibody | anti-KCNJ10 antibody

KCNJ10 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327870	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

KCNJ10; Polyclonal Antibody; KCNJ10 Antibody; inwardly rectifying subfamily J member 10; ATP dependent inwardly rectifying potassium channel Kir4.1; ATP sensitive inward rectifier potassium channel 10; ATP-dependent inwardly rectifying potassium channel Kir4.1; ATP-sensitive inward rectifier potassium channel 10; BIRK10; Glial ATP dependent inwardly rectifying potassium channel KIR4.1; Inward rectifier K(+) channel Kir1.2; Inward rectifier K+ channel KIR1.2; Inwardly rectifying potassium channel Kir1.2; KCJ10_HUMAN; KCNJ 10; Kcnj10; KCNJ13 PEN; KIR1.2; KIR4.1; Potassium channel; Potassium channel inwardly rectifying subfamily J member 10; Potassium inwardly rectifying channel subfamily J member 10; SESAME; anti-KCNJ10 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	KCNJ10 antibody detects endogenous levels of total KCNJ10
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	379
Applicable Applications for anti-KCNJ10 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human KCNJ10
Subcellular Location	Membrane. Basolateral Cell Membrane. In kidney distal convoluted tubules, located in the basolateral membrane where it colocalizes with KCNJ16.
Tissue Specificity	Expressed in kidney (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)

AAA327870 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of KCNJ10 using COLO205 whole cell lysates



WB (Western Blot)

Western blot analysis of extracts from Hela, using KCNJ10 Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-KCNJ10 antibody

Function: May be responsible for potassium buffering action of glial cells in the brain. 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 and cesium (By similarity). In the kidney, together with KCNJ16, mediates basolateral K+ recycling in distal tubules; this process is critical for Na+ reabsorption at the tubules.

Subunit Structure: Heterodimer with Kir5.1/KCNJ16; this interaction is required for KCNJ16 localization to the basolateral membrane in kidney cells. Interacts with MAGI1, alone and possibly as a heterodimer with KCNJ16; this interaction may facilitate KCNJ10/KCNJ16 potassium channel expression at the basolateral membrane in kidney cells (PubMed:24561201). Interacts with PATJ (By similarity).

Similarity: Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ10 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	25121966
NCBI GeneID	3766
NCBI Accession #	NP_002232.2
NCBI GenBank Nucleotide #	NM_002241.4
UniProt Accession #	P78508; Q5VUT9; Q8N4I7; Q92808; A3KME7
Molecular Weight	Observed: 43 kDa Predicted: 43 kDa
NCBI Official Full Name	ATP-sensitive inward rectifier potassium channel 10
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily J member 10
NCBI Official Symbol	KCNJ10
NCBI Official Synonym Symbols	KIR1.2; KIR4.1; SESAME; BIRK-10; KCNJ13-PEN
NCBI Protein Information	ATP-sensitive inward rectifier potassium channel 10
UniProt Protein Name	ATP-sensitive inward rectifier potassium channel 10
UniProt Gene Name	KCNJ10

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/kcnj10-antibody-immunohistochemistry-western-blot-elisa/327870>