

Rabbit Kir6.2 Polyclonal Antibody | anti-KCNJ11 antibody

Kir6.2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321944	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Kir6.2; Polyclonal Antibody; Kir6.2 Antibody; ATP sensitive inward rectifier potassium channel 11; Beta cell inward rectifier subunit; BIR; HHF 2; HHF2; IKATP; Inward rectifier K(+) channel Kir6.2; Inwardly rectifying potassium channel KIR6.2; IRK 11; IRK11; KCNJ11; Kir 6.2; MGC133230; PHHI; Potassium channel inwardly rectifying subfamily J member 11; Potassium channel; inwardly rectifying subfamily J member 11; Potassium inwardly rectifying channel J11; TNDM 3; TNDM3; anti-KCNJ11 antibody

PRODUCT SPECIFICATIONS

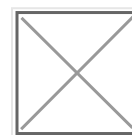
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Kir6.2 antibody detects endogenous levels of total Kir6.2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	303
Applicable Applications for anti-KCNJ11 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Kir6.2
Subcellular Location	Cell Membrane; Multipass Membrane Protein
Predicted Cross Reactivity	Bovine, Horse, Rabbit
Similarity	Bovine (100%), Horse (100%), Rabbit (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Kir6.2 expression in HeLa cells



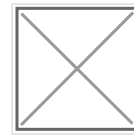
IF (Immunofluorescence)

AAA321944 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



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IHC (Immunohistochemistry)

AAA321944 at 1/100 staining Rat brain 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.

ADDITIONAL INFORMATION

Related Product Information for anti-KCNJ11 antibody

Description: ATP-sensitive potassium (K(ATP)) channels are found in endocrine cells, neurons and both smooth and striated muscle, where they play an important role in controlling insulin secretion and vascular tone, and protect neurons under metabolic stress.

Function: This receptor 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 extracellular barium (By similarity). Subunit of ATP-sensitive potassium channels (KATP). Can form cardiac and smooth muscle-type KATP channels with ABCC9. KCNJ11 forms the channel pore while ABCC9 is required for activation and regulation.

Subunit Structure: Interacts with ABCC8/SUR. Interacts with ABCC9/SUR2.

Post-translational Modifications: Phosphorylation by MAPK1 results in changes in channel gating that destabilize the closed states and reduce the ATP sensitivity.

Similarity: Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ11 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	261399884
NCBI GeneID	3767
NCBI Accession #	NP_001159762.1
NCBI GenBank Nucleotide #	NM_001166290.1
UniProt Accession #	Q14654 ; Q2M1H7 ; Q58EX3 ; Q8IW96 ; B4DWI4 ; E9PNK0
Molecular Weight	Observed: 44 kDa Predicted: 44 kDa
NCBI Official Full Name	ATP-sensitive inward rectifier potassium channel 11 isoform 2
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily J member 11
NCBI Official Symbol	KCNJ11
NCBI Official Synonym Symbols	BIR; HHF2; PHH1; IKATP; TNDM3; KIR6.2; MODY13
NCBI Protein Information	ATP-sensitive inward rectifier potassium channel 11
UniProt Protein Name	ATP-sensitive inward rectifier potassium channel 11
UniProt Gene Name	KCNJ11

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/kir62-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321944>