

Rabbit KCNJ2/Kir2.1 Polyclonal Antibody | anti-KCNJ2 antibody

KCNJ2/Kir2.1 Rabbit anti-Human Polyclonal (Internal) Antibody

CATALOG # AAA162929	HOST Rabbit	REACTIVITY Mouse, Rat, Human	APPLICATIONS Western Blot, Immunohistochemistry
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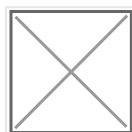
PRODUCT SYNONYMS

KCNJ2/Kir2.1; Polyclonal Antibody; KCNJ2/Kir2.1 Rabbit anti-Human Polyclonal (Internal) Antibody; PathPlus KCNJ2/Kir2.1 Antibody (Internal); KCNJ2; ATFB9; HHBIRK1; IRK1; KIR2.1; LQT7; HIRK1; IRK-1; HHIRK1; SQT3; anti-KCNJ2 antibody

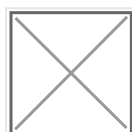
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat, Human
Clonality	Polyclonal
Specificity	Recognizes endogenous levels of Kir2.1 protein.
Purity/Purification	Immunoaffinity purified
Form/Format	PBS, pH7.3, 0.01% Sodium Azide, 30% Glycerol
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-KCNJ2 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Target	Human KCNJ2/Kir2.1
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the central region of human Kir2.1.
Conjugation	Unconjugated
Epitope	Internal
Family	Ion Channel
Subfamily	Potassium channel-inward-rectifying
Preparation and Storage	Aliquot and store at -20 degree C for 1 year. Avoid freeze/thaw cycles.

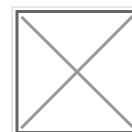
IMAGES



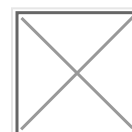
IHC (Immunohistochemistry)
KCNJ2/Kir2.1 Antibody-Human Colon: Formalin-Fixed, Paraffin-Embedded (FFPE)



IHC (Immunohistochemistry)
KCNJ2/Kir2.1 Antibody-Human Tonsil: Formalin-Fixed, Paraffin-Embedded (FFPE)



IHC (Immunohistochemistry)
KCNJ2/Kir2.1 Antibody-Human Placenta: Formalin-Fixed, Paraffin-Embedded (FFPE)



WB (Western Blot)
KCNJ2/Kir2.1 Antibody-Western blot analysis of Kir2.1 expression in HeLa (A); mouse brain (B); rat kidney (C) whole cell lysates.

ADDITIONAL INFORMATION

Related Product Information for anti-KCNJ2 antibody	Kir2.1 antibody is an unconjugated rabbit polyclonal antibody to Kir2.1 (KCNJ2)(Internal) from human. It is reactive with human, mouse and rat. Validated for IHC and WB. KCNJ2 (Kir2.1 inward-rectifier potassium ion channel) is a potassium ion channel protein that maintains resting membrane potential and regulates cell excitability. It plays an important role in neural and craniofacial development. It is highly expressed in the hippocampus, nucleus accumbens, putamen and caudate in the brain as well as in skeletal muscle, and is central to the inward-rectifier current (IK1) that controls cardiac excitability in human ventricular muscle. Mutations in KCNJ2 affect neuronal excitability and are associated with Autism, short-QT syndrome and Andersen-Tawil syndrome. In immunohistochemistry, KCNJ2 has cytoplasmic positivity in most tissues throughout the body.
References	Front. Cell. Neurosci. 2018, DOI: 10.3389/fncel.2018.00076; Heart Rhythm. 2005 Mar;2(3):316-24, PMID: 15851327; Cardiovascular Research. 2012. 93 (4): 666 -673, DOI:10.1093/cvr/cvr329; J Physiol. 2016 Jun 15;594(12):3245-70, PMID: 26864374

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504835
NCBI GeneID	3759
NCBI Accession #	NP_000882.1
NCBI GenBank Nucleotide #	NM_000891
UniProt Accession #	P63252; O15110; P48049
Molecular Weight	48,288 Da
NCBI Official Full Name	inward rectifier potassium channel 2
NCBI Official Synonym Full Names	potassium inwardly-rectifying channel, subfamily J, member 2
NCBI Official Symbol	KCNJ2
NCBI Official Synonym Symbols	IRK1; LQT7; SQT3; ATFB9; HHIRK1; KIR2.1; HHBIRK1
NCBI Protein Information	inward rectifier potassium channel 2; IRK-1; hIRK1; inward rectifier K+ channel KIR2.1; cardiac inward rectifier potassium channel
UniProt Protein Name	Inward rectifier potassium channel 2
UniProt Gene Name	KCNJ2
UniProt Synonym Gene Names	IRK1; IRK-1; hIRK1
UniProt Entry Name	IRK2_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.