KCNJ10 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KCNJ10, Polyclonal Antibody
Full Product Name	KCNJ10 Polyclonal Antibody
Product Gene Name	anti-KCNJ10 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	42kDa
3D Structure	ModBase 3D Structure for P78508
Immunogen	A synthetic peptide of human KCNJ10 (NP_002232.2).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-KCNJ10 antibody	Western Blot (WB)
Application Notes for anti-KCNJ10 antibody	WB: 1:500-1:2000
Related Product Information for anti-KCNJ10 antibody	This gene encodes a member of the inward rectifier-type potassium channel family, characterized by having a greater tendency to allow potassium to flow into, rather than out of, a cell. The encoded protein may form a heterodimer with another potassium channel protein and may be responsible for the potassium buffering action of glial cells in the brain. Mutations in this gene have been associated with seizure susceptibility of common idiopathic generalized epilepsy syndromes.
Other Notes	Small volumes of anti-KCNJ10 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KCNJ10 purchase	MBS8574304 is an antibody targeting KCNJ10. Also known as KCNJ10 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCNJ10. It may not necessarily be applicable to this product.

NCBI GI #	25121966
NCBI GeneID	3766
NCBI Accession #	NP_002232.2
UniProt Primary Accession #	P78508
UniProt Related Accession #	P78508

GenBank Nucleotide #	NP_002232.2
NCBI Official Full Name	ATP-sensitive inward rectifier potassium channel 10
NCBI Official Synonym Full Names	potassium inwardly rectifying channel subfamily J member 10
NCBI Official Symbol	KCNJ10
NCBI Official Synonym Symbols	KIR1.2; KIR4.1; SESAME; BIRK-10; KCNJ13-PEN
UniProt Protein Name	ATP-sensitive inward rectifier potassium channel 10
UniProt Synonym Protein Names	ATP-dependent inwardly rectifying potassium channel Kir4.1; Inward rectifier K(+) channel Kir1.2; Potassium channel, inwardly rectifying subfamily J member 10
Protein Family	ATP-sensitive inward rectifier potassium channel
UniProt Gene Name	KCNJ10
NCBI Protein Information	ATP-sensitive inward rectifier potassium channel 10
UniProt Comments for KCNJ10	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 (). In the kidney, together with KCNJ16, mediates basolateral K+ recycling in distal tubules; this process is critical for Na+ reabsorption at the tubules.
Research Articles on KCNJ10	**1.** Twelve tag single nucleotide polymorphisms (SNPs) from the KCNJ2 and KCNJ10 genes were genotyped. Among the 12 examined SNPs, only KCNJ10 rs1186689 was significantly associated with disease susceptibility; the variant T allele conferred a lower risk of developing ASD
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