KCNJ8 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	KCNJ8, Blocking Peptide
Full Product Name	KCNJ8 Peptide - middle region
Product Gene Name	KCNJ8 blocking peptide
Product Synonym Gene Name	KIR6.1; uKATP-1
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	KCNJ8 peptide (MBS3227437) is used for blocking the activity of KCNJ8 antibody (MBS3202459)
Molecular Weight	48kDa
Product Categories/Family for KCNJ8 blocking peptide	Peptide
Applications Tested/Suitable for KCNJ8 blocking peptide	Western Blot (WB)
Related Product Information for KCNJ8 blocking peptide	This is a synthetic peptide designed for use in combination with anti-KCNJ8 antibody made Target Description: Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. KCNJ8 is an integral membrane protein and inward-rectifier type potassium channel. KCNJ8, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins.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. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Other Notes	Small volumes of KCNJ8 blocking peptide 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 KCNJ8 purchase	MBS3227437 is a blocking peptide targeting KCNJ8. Also known as KCNJ8 Peptide - middle region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCNJ8. It may not necessarily be applicable to this product.

NCBI GI #	4826802
NCBI GeneID	3764
NCBI Accession #	NP_004973
UniProt Primary Accession #	Q15842
UniProt Related Accession #	Q15842
GenBank Nucleotide #	NM_004982
NCBI Official Full Name	ATP-sensitive inward rectifier potassium channel 8

NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily J member 8
NCBI Official Symbol	KCNJ8
NCBI Official Synonym Symbols	KIR6.1; uKATP-1
UniProt Protein Name	ATP-sensitive inward rectifier potassium channel 8
UniProt Synonym Protein Names	Inward rectifier K(+) channel Kir6.1; Potassium channel, inwardly rectifying subfamily J member 8; uKATP-1
Protein Family	ATP-sensitive inward rectifier potassium channel
UniProt Gene Name	KCNJ8
NCBI Protein Information	ATP-sensitive inward rectifier potassium channel 8
NCBI Summary for KCNJ8	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. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins. Defects in this gene may be a cause of J-wave syndromes and sudden infant death syndrome (SIDS). [provided by RefSeq, May 2012]
UniProt Comments for KCNJ8	This potassium channel 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 external barium ().
Research Articles on KCNJ8	**1.** KCNJ8-S422L as pathogenic for J-wave syndromes failed to appropriately account for European population structure and the variant is likely benign, or (b) Ashkenazi Jews may be at significantly increased risk of J-wave syndromes
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