GIRK1 Antibody Antigenic Blocking Peptide

PRODUCT OVERVIEW

Product Name	GIRK1, Blocking Peptide
Full Product Name	GIRK1 Antibody Antigenic Blocking Peptide
Product Gene Name	GIRK1 blocking peptide
Product Synonym Names	G protein activated inward rectifier potassium channel 1; GIRK-1; Inward rectifier K(+) channel Kir3.1; Kcnj3; KGA; KGB1; Kir3.1; Potassium channel; Potassium channel, inwardly rectifying subfamily J member 3 antibody
Form/Format	Antigenic Blocking Peptide
Concentration	Quantity: 250 ug; Volume: 100 ul (lot specific)
Preparation and Storage	-20• degree C for long term storage
Antibody/Peptide Pairs	GIRK1 peptide (MBS543752) is used for blocking the activity of GIRK1 antibody (MBS540262)
Antibody/Peptide Pairs	GIRK1 peptide (MBS543752) is used for blocking the activity of GIRK1 antibody (MBS541690)
Antibody/Peptide Pairs	GIRK1 peptide (MBS543752) is used for blocking the activity of GIRK1 antibody (MBS541691)
Molecular Weight	56,573 Da
Immunogen	Synthetic Peptide
Molecular Function	Potassium
Structure	Associated with GIRK2, GIRK3, GIRK4 to form a G-protein activated heteromultimer pore-forming unit.
Subcellular Location	Membrane; Multi-pass membrane protein
Applications Tested/Suitable for GIRK1 blocking peptide	Immunodepletion, Immunocompetition
Application Notes for GIRK1 blocking peptide	Western Blot: 1:500
Related Product Information for GIRK1 blocking peptide	Antigenic Blocking Peptide G protein-activated inward rectifier potassium channel 1 Antibody Potassium channel controlled by G-proteins. Inward rectifier potassium channel characterized by greater tendency to allow potassium to flow into cell rather than out. Plays crucial role in regulating heartbeat.
Other Notes	Small volumes of GIRK1 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 GIRK1 purchase	MBS543752 is a blocking peptide targeting GIRK1. Also known as GIRK1 Antibody Antigenic Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GIRK1. It may not necessarily be applicable to this product.

NCBI GI #	13928834
NCBI GeneID	50599
NCBI Accession #	NP_113798
UniProt Primary Accession #	P63251
UniProt Secondary Accession #	P35562

UniProt Related Accession #	P63251
GenBank Nucleotide #	NM_031610.3
NCBI Official Full Name	G protein-activated inward rectifier potassium channel 1
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily J member 3
NCBI Official Symbol	Kcnj3
UniProt Protein Name	G protein-activated inward rectifier potassium channel 1
UniProt Synonym Protein Names	Inward rectifier K(+) channel Kir3.1; KGA; KGB1; Potassium channel, inwardly rectifying subfamily J member 3
UniProt Gene Name	Kcnj3
UniProt Synonym Gene Names	Girk1; Kga; GIRK-1
UniProt Entry Name	KCNJ3_RAT
NCBI Protein Information	G protein-activated inward rectifier potassium channel 1
NCBI Summary for GIRK1	inwardly-rectifying potassium channel; gated by G-protein beta gamma-subunits [RGD, Feb 2006]
UniProt Comments for GIRK1	GIRK1: 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. This receptor plays a crucial role in regulating the heartbeat. Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ3 subfamily. Protein type: Channel, potassium; Membrane protein, multi-pass; Membrane protein, integral Cellular Component: cell surface; external side of plasma membrane; integral to plasma membrane; T-tubule Molecular Function: G-protein activated inward rectifier potassium channel activity; inward rectifier potassium channel activity; protein binding Biological Process: potassium ion import; response to electrical stimulus
Research Articles on GIRK1	**1.** Fourteen days after axotomy, GIRK1 and GIRK2 were down-regulated in DRG neurons at the mRNA and protein levels.
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