

Product Name: GIRK-1 Rabbit Monoclonal Antibody

Catalog #: AMRe03997

For research use only.

Summary

Description Recombinant rabbit monoclonal antibody

Host Rabbit
Application WB,FC

Reactivity Human, Mouse, Rat

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Monoclonal
Form Liquid

Concentration

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and **Buffer**

0.05% protective protein.

Purification Affinity Purification

Application

Dilution Ratio WB 1:500-1:1000,FC 1:50-1:100

Molecular Weight Calculated MW:57 kDa;Observed MW: 57 kDa

Antigen Information

Gene Name KCNJ3

G protein-activated inward rectifier potassium channel 1; GIRK-1; Inward rectifier K(+) Alternative Names

channel Kir3.1; Potassium channel, inwardly rectifying subfamily J member 3; KCNJ3; GIRK1

 Gene ID
 3760.0

 SwissProt ID
 P48549

Immunogen A synthetic peptide of human GIRK1

Background

G protein-coupled inwardly rectifying potassium channels (KIR3.1 through KIR3.4) are coupled to numerous neurotransmitter

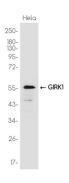


receptors in the brain and are abundantly expressed in the olfactory bulb, hippocampus, neocortex, dentate gyrus, cerebellar cortex and thalamus regions of the brain. Also known as GIRK, KIR3 potassium channels localize to the soma and dendrites as well as axons of neurons. Liberated Gby subunits from G protein heterotrimers bind to and regulate KIR3 channel activity. Gb3-and Gb4-containing Gby dimers bind directly to cytoplasmic domains of KIR3 proteins and increase the K+ current while Gb5-containing Gby dimers inhibit KIR3 K+ current. KIR3 activity is also inhibited by tyrosine phosphorylation. Brain-derived neurotrophic factor activates receptor tyrosine kinase B, which then phosphorylates KIR3 tyrosine residues, effectively inactivating the KIR3 channels.

Research Area

Image Data

Western blot analysis of GIRK-1 in HeLa lysates using GIRK-1 antibody.



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