

For Research Use Only

KCNJ9 Polyclonal antibody

Catalog Number: 31742-1-AP



Basic Information

Catalog Number:

31742-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG35873

GenBank Accession Number:

BC167777

GeneID (NCBI):

3765

UNIPROT ID:

Q92806

Full Name:

potassium inwardly-rectifying channel, subfamily J, member 9

Observed MW:

38-44 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB: 1:1000-1:4000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : mouse brain tissue, rat brain tissue

Background Information

KCNJ9, also known as GIRK3 (G protein-activated inwardly rectifying potassium channel 3), is a crucial subunit that forms inwardly rectifying potassium channels. These channels are primarily activated by inhibitory G proteins (Gi/o) downstream of various G protein-coupled receptors (GPCRs), such as those for neurotransmitters like GABA, acetylcholine, and adenosine. Upon activation, KCNJ9 facilitates potassium efflux, leading to membrane hyperpolarization and a reduction in neuronal excitability. It is widely expressed in the brain, where it plays a key role in regulating synaptic transmission and neuronal circuits, influencing processes ranging from pain perception to reward and motivation.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

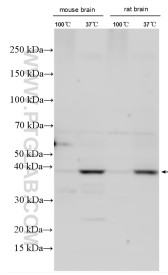
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31742-1-AP (KCNJ9 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.