For Research Use Only

KCNJ9 Polyclonal antibody, PBS Only

Catalog Number:31742-1-PBS

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Basic Information

Catalog Number:
31742-1-PBS

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

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

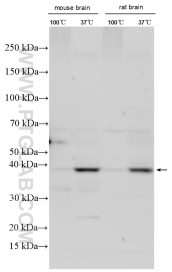
KCNJ9, also known as GIRK3 (G protein-activated inwardly rectifying potassium channel 3), is a crucial subunit that forms inwardly rectifying potassium channels. These channels are primarily activated by inhibitory G proteins (Gi/o) downstream of various G protein-coupled receptors (GPCRs), such as those 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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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. This data was developed using the same antibody clone with 31742-1-PBS in a different storage buffer formulation.