

For Research Use Only

KCNJ9 Polyclonal antibody

Catalog Number: 31742-1-AP



Basic Information

Catalog Number: 31742-1-AP	GenBank Accession Number: BC167777	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 550 ug/ml by Nanodrop;	GeneID (NCBI): 3765	Recommended Dilutions: WB: 1:1000-1:4000
Source: Rabbit	UNIPROT ID: Q92806	
Isotype: IgG	Full Name: potassium inwardly-rectifying channel, subfamily J, member 9	
Immunogen Catalog Number: AG35873	Observed MW: 38-44 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : mouse brain tissue, rat brain tissue
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 -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

*** 20ul sizes contain 0.1% BSA

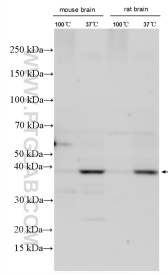
For technical support and original validation data for this product please contact:

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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.