For Research Use Only

GIRK2 Polyclonal antibody

Catalog Number:21647-1-AP 4 Publications

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Basic Information

Catalog Number:
21647-1-AP

Size:
150ul , Concentration: 650 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG16344

GenBank Accession Number:
BC101547

GeneID (NCBI):
3763

UNIPROT ID:
P48051

Full Name:
potassium inwardly-rectifying channel, subfamily J, member 6

Calculated MW:
423 aa, 48 kDa

Observed MW:
45-48 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, rat brain tissue

IHC : mouse brain tissue,

Background Information

GIRK2 (also known as Kir3.2), encoded by KCNJ6 gene, is a member of the G protein-coupled inwardly-rectifying potassium channel (GIRK, Kir3) family of inward rectifier potassium channels. GIRK channels are activated following stimulation of G protein-coupled receptors (PMID: 26422984). They play important roles in regulating cellular excitabilities in the heart and brain (PMID: 31043612). Mutations in KCNJ6 gene are associated with Keppen-Lubinsky Syndrome (PMID: 25620207).

Notable Publications

Author	Pubmed ID	Journal	Application
Jiaxun Nie	32683743	FASEB J	WB
Colleen S Stein	35280925	Mol Ther Nucleic Acids	WB
Peiwu Ye	37739206	Prog Neurobiol	

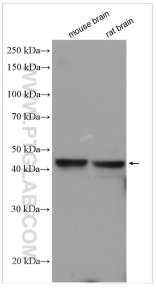
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

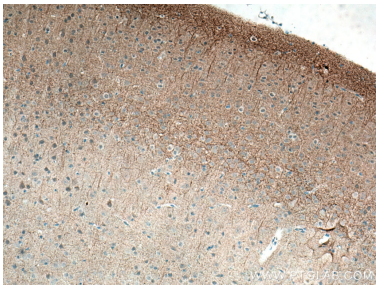
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

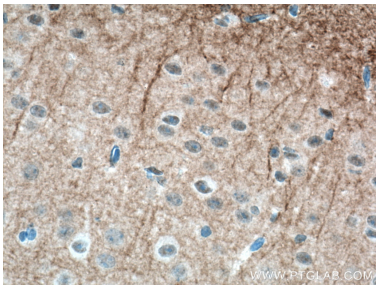
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21647-1-AP (GIRK2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21647-1-AP (GIRK2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21647-1-AP (GIRK2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).