

GABRG2 Polyclonal antibody

Catalog Number: 14104-1-AP

9 Publications

Basic Information

Catalog Number:

14104-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5237

GenBank Accession Number:

BC059389

GeneID (NCBI):

2566

UNIPROT ID:

P18507

Full Name:

gamma-aminobutyric acid (GABA) A receptor, gamma 2

Calculated MW:

467 aa, 54 kDa

Observed MW:

54-60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF 1:50-1:500

Applications

Tested Applications:

FC, IF-P, IP, WB, ELISA

Cited Applications:

WB, IP, IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

Positive Controls:

WB : Neuro-2a cells, mouse brain tissue

IP : mouse brain tissue,

IF : mouse cerebellum tissue,

Background Information

GABRG2 (gamma-aminobutyric acid type A receptor subunit gamma2), which is expected to be located in cell membrane and expressed in brain and retina. The calculated molecular weight of the protein is 54 kDa. This antibody can recognize the 43 kDa band of target (PMID:12091434). And it also has glycosylation modification. GABA is the major inhibitory neurotransmitter in the mammalian brain, where it acts at GABA-A receptors, which are ligand-gated chloride channels. GABA-A receptors are pentameric, consisting of proteins from several subunit classes: alpha, beta, gamma, delta and rho. Mutations in this gene have been associated with epilepsy and febrile seizures.

Notable Publications

Author	Pubmed ID	Journal	Application
Yi Yang	30333479	Cell Death Dis	WB
Juan Yang	32436359	CNS Neurosci Ther	WB, IP
Qian Xu	25556683	Neurosci Lett	IHC, IF

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

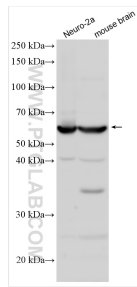
For technical support and original validation data for this product please contact:

T: 4006900926

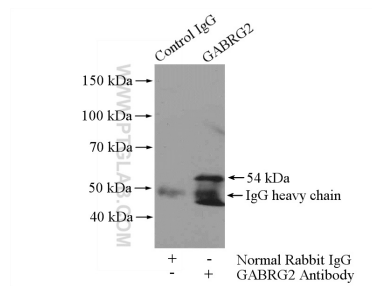
E: Proteintech-CN@ptglab.comW: ptgcn.com

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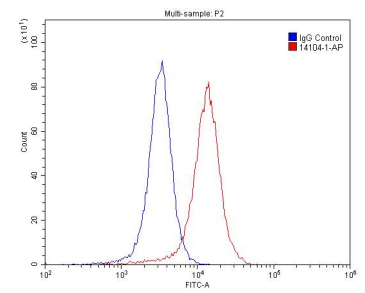
Selected Validation Data



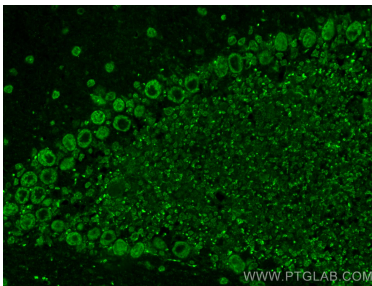
Various lysates were subjected to SDS PAGE followed by western blot with 14104-1-AP (GABRG2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-GABRG2 (IP:14104-1-AP, 4ug; Detection:14104-1-AP 1:500) with mouse brain tissue lysate 4000ug.



1X10⁶ SH-SY5Y cells were stained with 0.2ug GABRG2 antibody (14104-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.



Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using GABRG2 antibody (14104-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).