

For Research Use Only

GABRG2 Polyclonal antibody

Catalog Number: 14104-1-AP **9 Publications**



Basic Information

Catalog Number: 14104-1-AP	GenBank Accession Number: BC059389	Purification Method: Antigen affinity purification
Size: 500 µg/ml	GeneID (NCBI): 2566	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: P18507	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: gamma-aminobutyric acid (GABA) A receptor, gamma 2	IF 1:50-1:500
Immunogen Catalog Number: AG5237	Calculated MW: 467 aa, 54 kDa	
	Observed MW: 54-60 kDa	

Applications

Tested Applications: FC, IF-P, IP, WB, ELISA	Positive Controls:
Cited Applications: WB, IP, IHC, IF	WB: Neuro-2a cells, mouse brain tissue
Species Specificity: human, mouse, rat	IP: mouse brain tissue,
Cited Species: human, rat, mouse	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

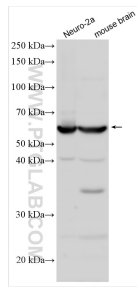
Storage

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

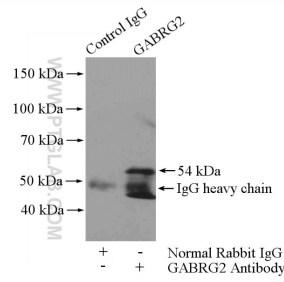
For technical support and original validation data for this product please contact:
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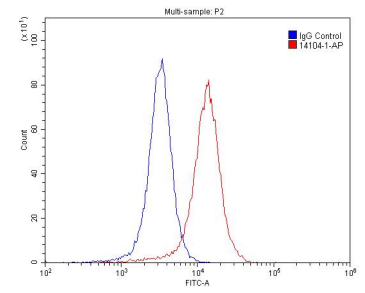
Selected Validation Data



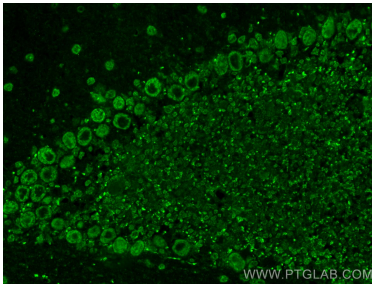
Various lysates were subjected to SDS PAGE followed by western blot with 14104-1-AP (GABRG2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).