

For Research Use Only

# GABRA4 Polyclonal antibody, PBS Only

Catalog Number: 12979-1-PBS



## Basic Information

Catalog Number:

12979-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3600

GenBank Accession Number:

BC035055

GeneID (NCBI):

2557

UNIPROT ID:

P48169

Full Name:

gamma-aminobutyric acid (GABA) A receptor, alpha 4

Calculated MW:

554 aa, 62 kDa

Observed MW:

62-70 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IHC, IP, Indirect ELISA

Species Specificity:

human, mouse, rat

## Background Information

Gamma-aminobutyric acid (GABA) is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA-A receptors, which are ligand-gated chloride channels. Chloride conductance of these channels can be modulated by agents such as benzodiazepines that bind to the GABA-A receptor. GABRA4, encoding the extrasynaptically located  $\alpha$  4 - subunit of the GABAA receptor, is involved in the etiology of autism. (PMID: 32028044, 32033586)

## 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:

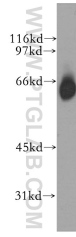
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

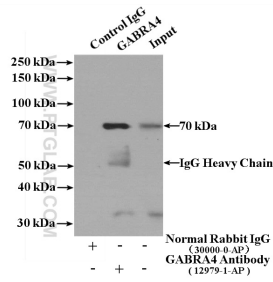
W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

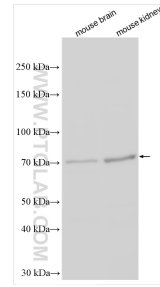
## Selected Validation Data



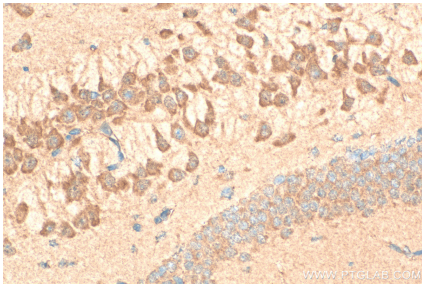
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 12979-1-AP (GABRA4 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12979-1-PBS in a different storage buffer formulation.



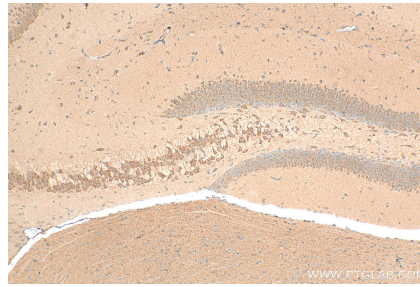
IP result of anti-GABRA4 (IP:12979-1-AP, 4ug; Detection:12979-1-AP 1:500) with mouse skeletal muscle tissue lysate 2200ug. This data was developed using the same antibody clone with 12979-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 12979-1-AP (GABRA4 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12979-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12979-1-AP (GABRA4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12979-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12979-1-AP (GABRA4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12979-1-PBS in a different storage buffer formulation.