

For Research Use Only

# GABRA4 Polyclonal antibody

Catalog Number: 12979-1-AP **3 Publications**



## Basic Information

**Catalog Number:**

12979-1-AP

**Size:**

800 µg/ml

**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

**Recommended Dilutions:**

WB 1:500-1:3000

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

## Applications

**Tested Applications:**

IP, WB, ELISA

**Cited Applications:**

WB, IP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Positive Controls:**

WB: mouse skeletal muscle tissue, mouse brain tissue, human kidney tissue, mouse kidney tissue

IP: mouse skeletal muscle tissue,

## 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)

## Notable Publications

| Author       | Pubmed ID | Journal           | Application |
|--------------|-----------|-------------------|-------------|
| Jiaxun Nie   | 32683743  | FASEB J           | WB          |
| Neus Pedraza | 37684532  | Cell Mol Life Sci | IP, WB      |
| Min Wang     | 38292191  | Genes Dis         | WB          |

## 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:

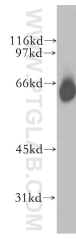
T: 4006900926

E: Proteintech-CN@ptglab.com

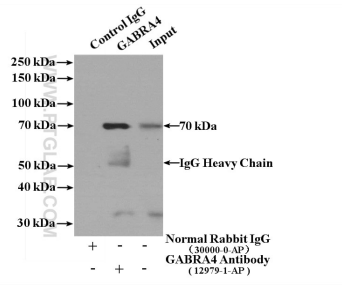
W: ptgcn.com

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

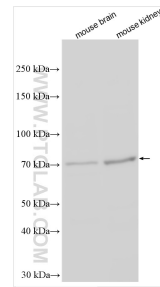
## Selected Validation Data



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.



IP result of anti-GABRA4 (IP:12979-1-AP, 4ug; Detection:12979-1-AP 1:500) with mouse skeletal muscle tissue lysate 2200ug.



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.