

For Research Use Only

# GABRA4 Polyclonal antibody, PBS Only

Catalog Number:12979-1-PBS



## Basic Information

<b>Catalog Number:</b> 12979-1-PBS	<b>GenBank Accession Number:</b> BC035055	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2557	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P48169	
<b>Isotype:</b> IgG	<b>Full Name:</b> gamma-aminobutyric acid (GABA) A receptor, alpha 4	
<b>Immunogen Catalog Number:</b> AG3600	<b>Calculated MW:</b> 554 aa, 62 kDa	
	<b>Observed MW:</b> 62-70 kDa	

## 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.

**Storage Buffer:**  
PBS only, pH7.3

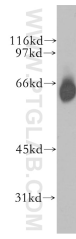
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

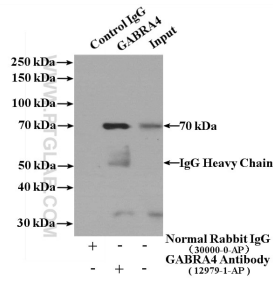
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

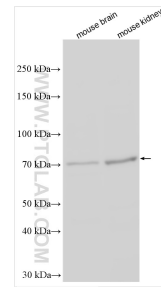
## Selected Validation Data



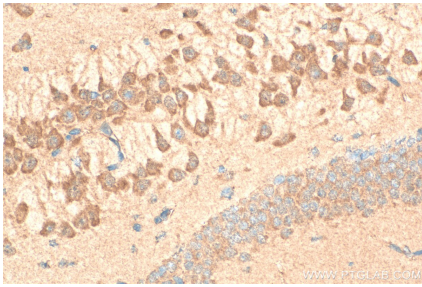
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 12979-1-AP (GABRA4 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12979-1-PBS in a different storage buffer formulation.



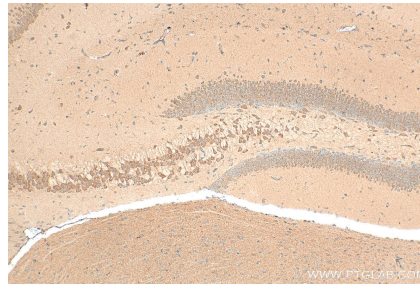
IP result of anti-GABRA4 (IP:12979-1-AP, 4ug; Detection:12979-1-AP 1:500) with mouse skeletal muscle tissue lysate 2200ug. This data was developed using the same antibody clone with 12979-1-PBS in a different storage buffer formulation.



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.