

For Research Use Only

# GAD1 Polyclonal antibody

Catalog Number: 10408-1-AP

Featured Product

24 Publications



## Basic Information

**Catalog Number:**

10408-1-AP

**Size:**

600 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG0666

**GenBank Accession Number:**

BC002815

**GeneID (NCBI):**

2571

**UNIPROT ID:**

Q99259

**Full Name:**

glutamate decarboxylase 1 (brain, 67kDa)

**Calculated MW:**

67 kDa

**Observed MW:**

67 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:5000-1:50000

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

IHC 1:200-1:800

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Cited Applications:**

IF, IHC, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

IHC : mouse brain tissue,

## Background Information

The GAD1 (glutamate decarboxylase 1) gene encodes 67 kDa glutamic acid decarboxylase isoform (GAD67), the rate-limiting enzyme responsible for  $\gamma$ -aminobutyric acid (GABA) biosynthesis from glutamic acid and the major GAD isoform in the human brain for early brain development (PMID:21302352). It is also potentially involved in variety of skin activities. It belongs to the group II decarboxylase family.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yifei Xu	36120289	Front Pharmacol	WB
Lei Wu	33044778	Phytother Res	WB
Michail S Kukharsky	32467583	Transl Psychiatry	

## 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:

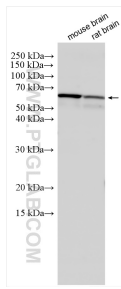
T: 4006900926

E: Proteintech-CN@ptglab.com

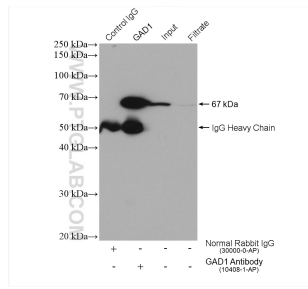
W: ptgcn.com

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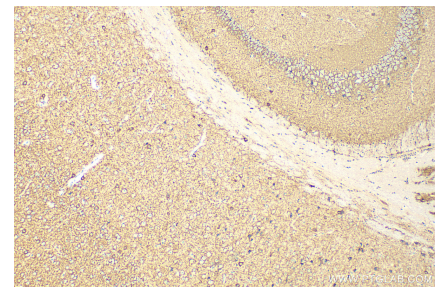
## Selected Validation Data



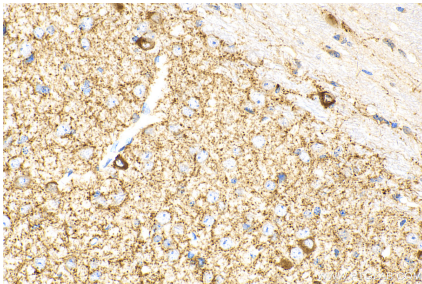
Various lysates were subjected to SDS PAGE followed by western blot with 10408-1-AP (GAD1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-GAD1 (IP:10408-1-AP, 4ug; Detection:10408-1-AP 1:500) with mouse brain tissue lysate 1920 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10408-1-AP (GAD1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10408-1-AP (GAD1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).