

For Research Use Only

GAD1 Polyclonal antibody

Catalog Number:10408-1-AP

Featured Product

27 Publications



Basic Information

Catalog Number:

10408-1-AP

Size:

150ul , Concentration: 600 ug/ml by Nanodrop;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:800

IF-Fro 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-Fro, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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, mouse cerebellum tissue

IF-Fro : 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 γ -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

*** 20ul sizes contain 0.1% BSA

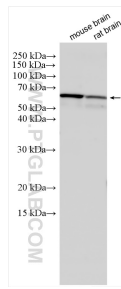
For technical support and original validation data for this product please contact:

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

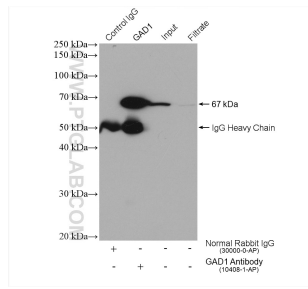
E: proteintech@ptglab.com
W: ptglab.com

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

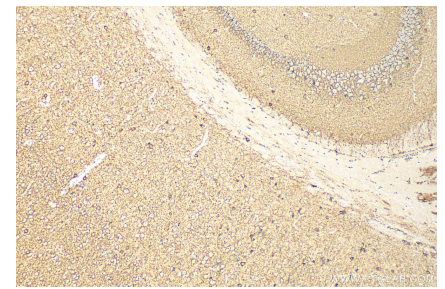
Selected Validation Data



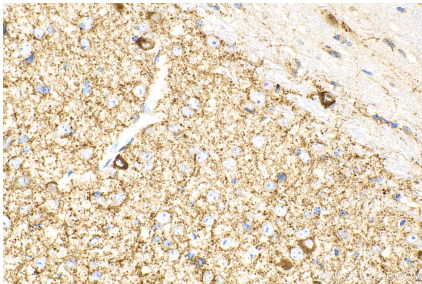
Various lysates were subjected to SDS PAGE followed by western blot with 10408-1-AP (GAD1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



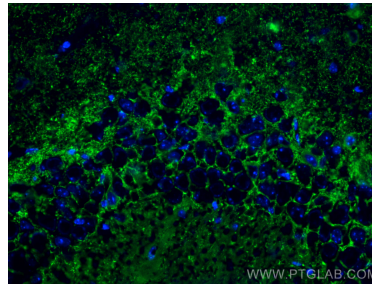
IP result of anti-GAD1 (IP:10408-1-AP, 4ug; Detection:10408-1-AP 1:500) with mouse brain tissue lysate 1920 ug.



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).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using GAD1 antibody (10408-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).