For Research Use Only

GAD1 Monoclonal antibody

Catalog Number: 67648-1-lg 6 Publications



Basic Information

Catalog Number: GenBank Accession Number: 67648-1-lg BC002815

67648-1-lg BC002815 Protein A purification
Size: GeneID (NCBI): CloneNo.:

150ul , Concentration: 1000 ug/ml by 2571 2D587

 Nanodrop;
 UNIPROT ID:
 Recommended Dilutions:

 Source:
 Q99259
 WB: 1:5000-1:50000

 Mouse
 Full Name:
 IHC: 1:500-1:2000

 Isotype:
 IIII Name:
 IF-P: 1:200-1:800

Isotype: glutamate decarboxylase 1 (brain, IgG2a 67kDa)

5,100,

Immunogen Catalog Number: Calculated MW: AG21336 67 kDa

Observed MW: 67 kDa, 57 kDa

Applications

Tested Applications: WB, IHC, IF-P, ELISA

Cited Applications:

Species Specificity:

human, mouse, rat, pig, rabbit

Cited Species: human, 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: pig brain tissue, rat brain tissue, mouse cerebellum tissue, pig cerebellum tissue, rabbit brain tissue, rabbit cerebellum tissue, rat cerebellum tissue, mouse brain tissue

Purification Method:

IHC: rat cerebellum tissue, mouse cerebellum tissue

IF-P: rat brain tissue,

Background Information

GAD1, also named as GAD67, belongs to the group II decarboxylase family. GAD1 is the rate-limiting enzyme responsible for γ -aminobutyric acid (GABA) biosynthesis from glutamatic 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Li Li	39740661	Dev Cell	WB
Ou-Yang Zhanmu	39663420	Acta Pharmacol Sin	IF
Mengjie Qi	39480623	Biol Trace Elem Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

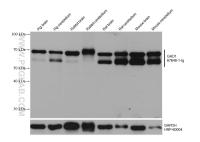
*** 20ul sizes contain 0.1% BSA

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



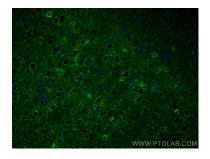
Various lysates were subjected to SDS PAGE followed by western blot with 67648-1-lg (GAD1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control



Immunohistochemical analysis of paraffinembedded rat cerebellum tissue slide using 67648-1-lg (GAD1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse cerebellum tissue slide using 67648-1-Ig (GAD1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using GAD1 antibody (67648-1-1g, Clone: 2D5B7) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).