

For Research Use Only

GAD1 Monoclonal antibody

Catalog Number: 67648-1-Ig 5 Publications



Basic Information

Catalog Number: 67648-1-Ig	GenBank Accession Number: BC002815	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 2571	CloneNo.: 2D5B7
Source: Mouse	UNIPROT ID: Q99259	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF-P: 1:200-1:800
Isotype: IgG2a	Full Name: glutamate decarboxylase 1 (brain, 67kDa)	
Immunogen Catalog Number: AG21336	Calculated MW: 67 kDa	
	Observed MW: 67 kDa, 57 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls:
Cited Applications: WB, IF	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
Species Specificity: human, mouse, rat, pig, rabbit	IHC : rat cerebellum tissue, mouse cerebellum tissue
Cited Species: human, mouse	IF-P : rat brain tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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
Mengjie Qi	39480623	Biol Trace Elem Res	WB
Rong-Xin Song	38513970	Exp Neurol	IF

Storage

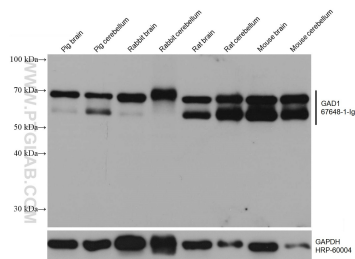
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

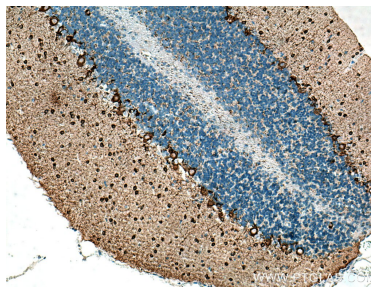
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

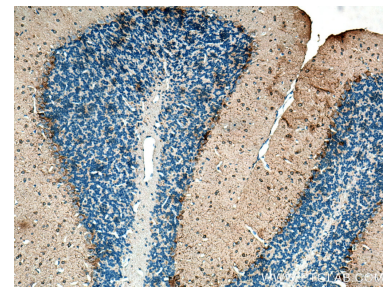
Selected Validation Data



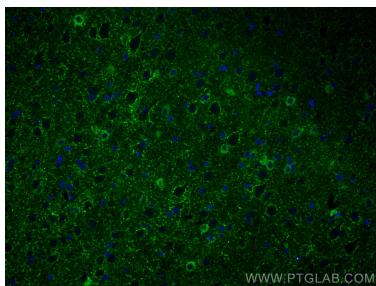
Various lysates were subjected to SDS PAGE followed by western blot with 67648-1-Ig (GAD1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded rat 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).



Immunohistochemical analysis of paraffin-embedded 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-Ig, Clone: 2D5B7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).