

For Research Use Only

GAD1 Monoclonal ANTIBODY



Catalog Number: 67648-1-Ig

Basic Information

Catalog Number: 67648-1-Ig	GenBank Accession Number: BC002815	Purification Method: Protein A purification
Size: 150UL, Concentration: 500 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2571	CloneNo.: 2D5B7
Source: Mouse	Full Name: glutamate decarboxylase 1 (brain, 67kDa)	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000
Isotype: IgG2a	Calculated MW: 67 kDa	
Immunogen Catalog Number: AG21336	Observed MW: 67 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

Human, mouse, rat, pig, rabbit

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 cerebellum tissue, rat brain tissue, pig brain tissue, rabbit brain tissue

IHC: rat cerebellum tissue, mouse cerebellum 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.

Storage

Storage:

Store at -20°C.

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

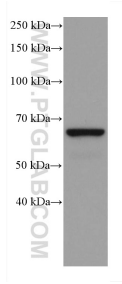
For technical support and original validation data for this product please contact:

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

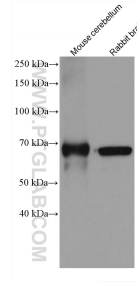
E: proteintech@ptglab.com
W: ptglab.com

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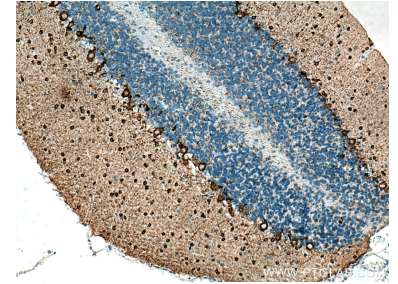
Selected Validation Data



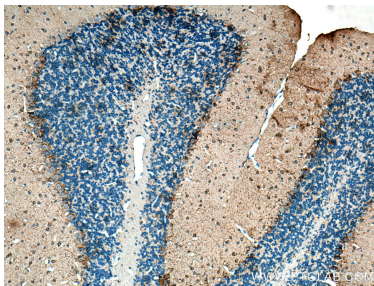
pig brain tissue were subjected to SDS PAGE followed by western blot with 67648-1-Ig (GAD1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



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.



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).