For Research Use Only

GAD65 Polyclonal antibody

Catalog Number:21760-1-AP 4 Publications

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Basic Information

Catalog Number:
21760-1-AP

Size:
400 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG16251

GenBank Accession Number:
BC126327

GeneID (NCBI):
2572

UNIPROT ID:
Q05329

Full Name:
glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)

Calculated MW:
585 aa, 65 kDa

Observed MW:
65 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:100-1:3000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:200-1:500
IF 1:200-1:800

Applications

Tested Applications:
IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

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 : mouse brain tissue, rat brain tissue, mouse cerebellum tissue, rat brain brain tissue

IP : rat brain tissue,

IHC : mouse brain tissue, human colon tissue

IF : HeLa cells, mouse brain tissue

Background Information

GAD2, also named as GAD65, belongs to the group II decarboxylase family. GAD2 catalyzes the production of GABA. It is responsible for the synthesis of the essential neurotransmitter gamma-aminobutyric acid (GABA) from L-glutamic acid. GAD2 is expressed in nervous and endocrine systems and are thought to be involved in synaptic transmission and INS secretion. Autoantibodies against GAD2 may serve as markers for type I diabetes. Many individuals suffering from an adult onset disorder known as Stiff Person Syndrome (SPS) also express autoantibodies to GAD2. The antibody is specific to GAD2.

Notable Publications

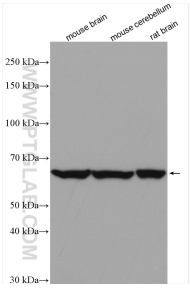
Author	Pubmed ID	Journal	Application
Yue Li	29031852	Neuropharmacology	WB
Mehdi Eshraghi	32426479	Sci Adv	WB
Sitong Li	35288204	Neurosci Lett	WB

Storage

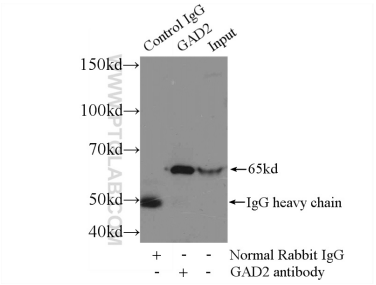
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

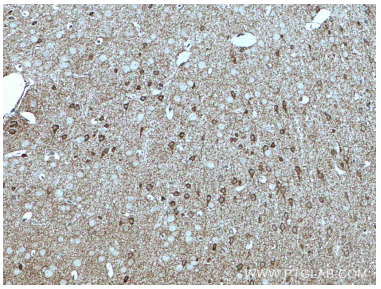
Selected Validation Data



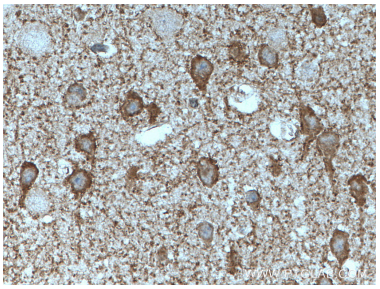
Various lysates were subjected to SDS PAGE followed by western blot with 21760-1-AP (GAD65 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



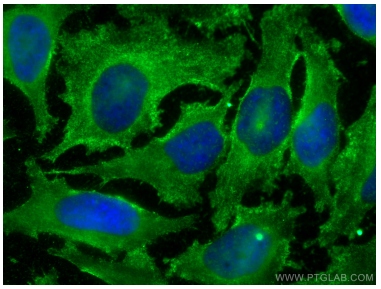
IP result of anti-GAD65 (IP:21760-1-AP, 3ug; Detection:21760-1-AP 1:300) with rat brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21760-1-AP (GAD65 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21760-1-AP (GAD65 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using GAD65 antibody (21760-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).