

GAD65/GAD2 Mouse mAb

Catalog No.: A27976

Basic Information

Observed MW

65kDa

Calculated MW

65kDa

Category

Primary antibody

Applications

WB,IF-P,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

AMC50094

Background

This gene encodes one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid. A pathogenic role for this enzyme has been identified in the human pancreas since it has been identified as an autoantibody and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Alternative splicing results in multiple transcript variants that encode the same protein.

Recommended Dilutions

WB	1:2500 - 1:10000
IF-P	1:200 - 1:800
IHC-P	1:1000 - 1:4000
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

2572

Swiss Prot

Q05329

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

GAD65

Contact

	400-999-6126
	cn.market@abclonal.com.cn
	www.abclonal.com.cn

Product Information

Source

Mouse

Isotype

IgG1. Rabbit-derived mouse chimeric antibody

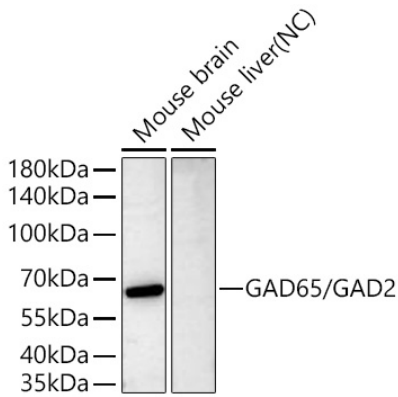
Purification

Affinity purification

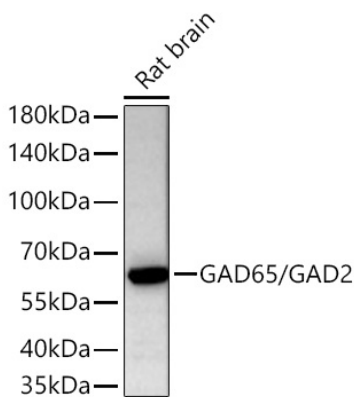
Storage

Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide, 50% glycerol, pH7.3.

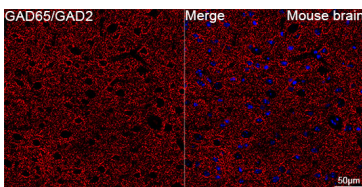
Validation Data



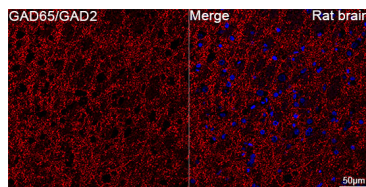
Western blot analysis of various lysates using GAD65/GAD2 Mouse mAb (A27976) at 1:5000 dilution incubated overnight at 4°C.
 Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.
 Lysates/proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Negative control (NC): Mouse liver
 Exposure time: 45s.



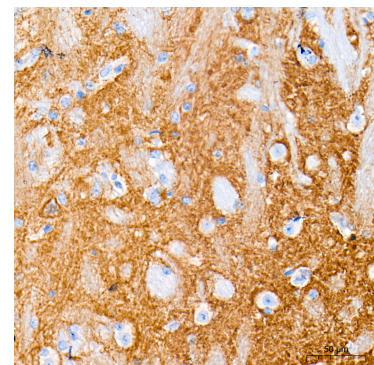
Western blot analysis of lysates from Rat brain using GAD65/GAD2 Mouse mAb (A27976) at 1:5000 dilution incubated overnight at 4°C.
 Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.
 Lysates/proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 45s.



Confocal imaging of paraffin-embedded Mouse brain tissue using GAD65/GAD2 Mouse mAb (A27976, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

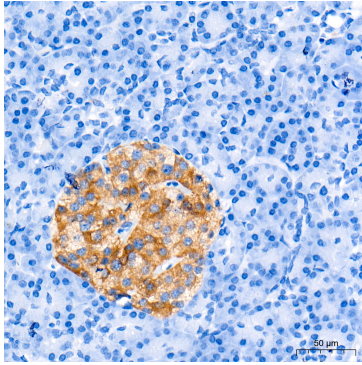


Confocal imaging of paraffin-embedded Rat brain tissue using GAD65/GAD2 Mouse mAb (A27976, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

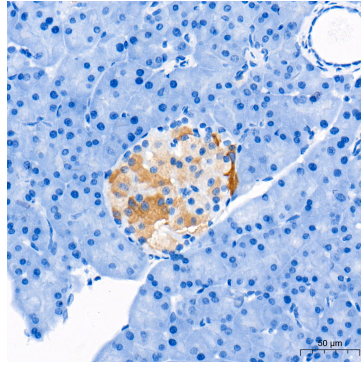


Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using GAD65/GAD2 Mouse mAb (A27976) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

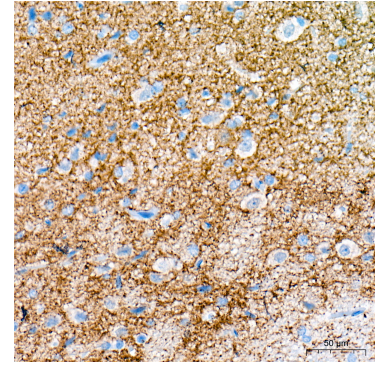
Validation Data



Immunohistochemistry analysis of paraffin-embedded Human pancreas tissue using GAD65/GAD2 Mouse mAb (A27976) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat pancreas tissue using GAD65/GAD2 Mouse mAb (A27976) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using GAD65/GAD2 Mouse mAb (A27976) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.