

GAD65/GAD2 Mouse mAb**Catalog No.: A27976****Basic Information****Observed MW**

65kDa

Calculated MW

65kDa

Category

Monoclonal Antibodies

Applications

WB, IF-P, IHC-P, ELISA

Cross Reactivity

Human, Mouse, Rat

Clone No.

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.

Note: This product is a modified chimeric antibody. For multiplex staining of multiple targets, we recommend using Fc-specific secondary antibodies.

Recommended Dilutions**WB** 1:2500 - 1:10000**IF-P** 1:200 - 1:400**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

Product Information**Source**

Mouse

Isotype

IgG1. Rabbit-derived mouse chimeric antibody

Purity

Affinity purification

Storage

Store at -20°C

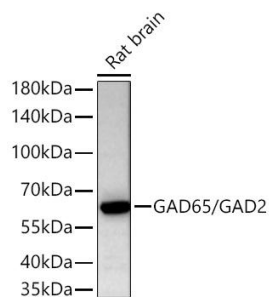
Contact

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Validation Data



Western blot analysis of lysates from Rat brain using GAD65/GAD2 Mouse mAb (A27976) at 1:5000 dilution incubated overnight at 4°C.

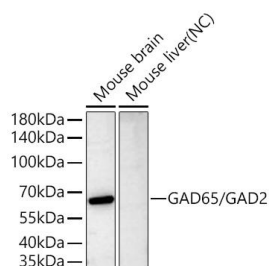
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 45s.



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.

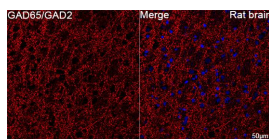
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

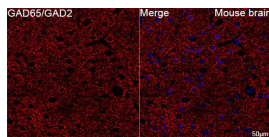
Detection: ECL Basic Kit (RM00020).

Negative control (NC): Mouse liver

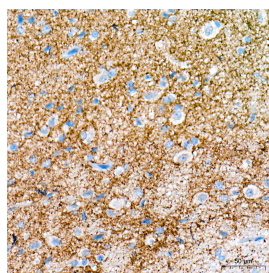
Exposure time: 45s.



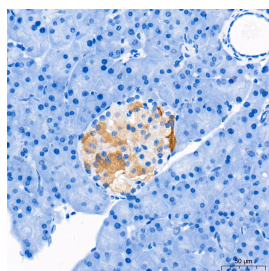
Confocal imaging of paraffin-embedded Rat brain tissue using GAD65/GAD2 Mouse mAb (A27976, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed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



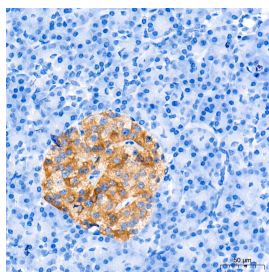
Confocal imaging of paraffin-embedded Mouse brain tissue using GAD65/GAD2 Mouse mAb (A27976, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed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



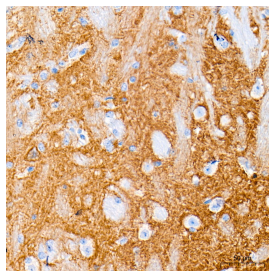
Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using GAD65/GAD2 Mouse mAb (A27976) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



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 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 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.