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# GAD65/GAD2 Mouse mAb

**Catalog No.: A27976**

## Basic Information

**Observed MW**
65kDa

**Calculated MW**
65kDa

**Category**
Primary antibody

**Applications**
WB,IF/ICC,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/ICC** | 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

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## Product Information

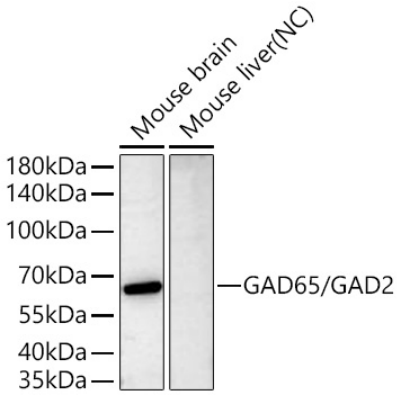
**Source**
Mouse

**Isotype**
IgG

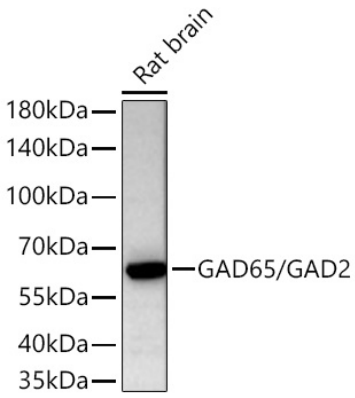
**Purification**
Affinity purification

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

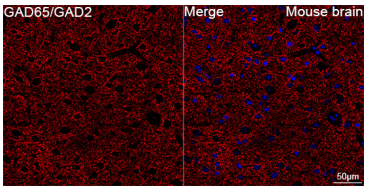
## Validation Data



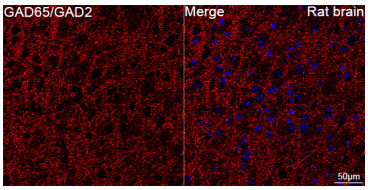

Western blot analysis of various lysates using GAD65/GAD2 Mouse mAb (A27976) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: 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℃.
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.

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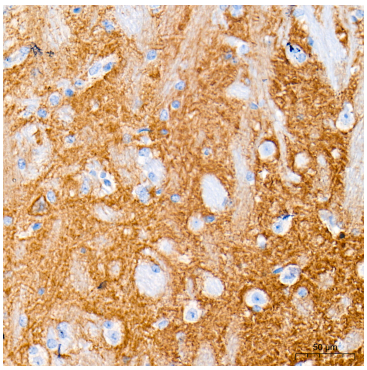
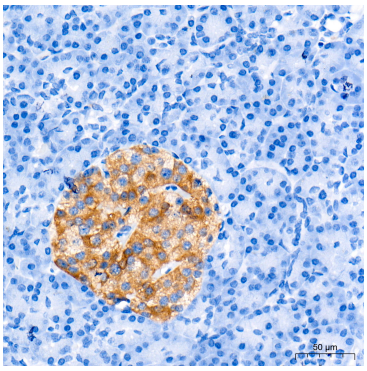
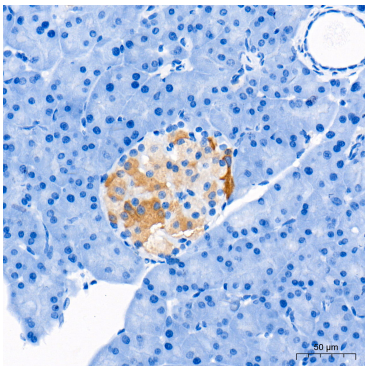


Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using GAD65/GAD2 Mouse mAb (A27976) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

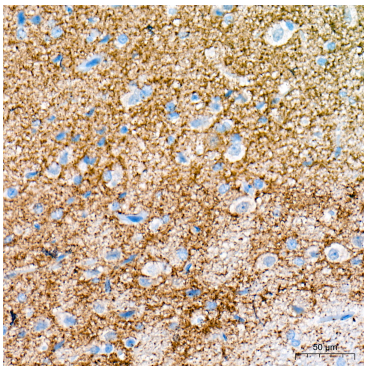
## Validation Data



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.