

# GAD67/GAD1 Rabbit mAb

Catalog No.: A26748 **Recombinant**

## Basic Information

### Observed MW

67kDa

### Calculated MW

67kDa

### Category

Primary antibody

### Applications

WB, IHC-P, IF/ICC, IP, ELISA

### Cross-Reactivity

Mouse, Rat

### CloneNo number

ARC3297

## 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 autoantigen and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Deficiency in this enzyme has been shown to lead to pyridoxine dependency with seizures. Alternative splicing of this gene results in two products, the predominant 67-kD form and a less-frequent 25-kD form.

## Recommended Dilutions

|               |  |
|---------------|--|
| <b>WB</b>     | 1:1000 - 1:3000  |
| <b>IHC-P</b>  | 1:200 - 1:400  |
| <b>IF/ICC</b> | 1:50 - 1:200   |
| <b>IP</b>     | 0.5µg-4µg antibody for<br>500µg-700µg extracts of<br>whole cells   |
| <b>ELISA</b>  | Recommended starting<br>concentration is 1 µg/mL.<br>Please optimize the<br>concentration based on<br>your specific assay<br>requirements. |

## Contact

 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Immunogen Information

### Gene ID

2571

### Swiss Prot

Q99259

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human GAD67/GAD1 (Q99259).

### Synonyms

GAD; SCP; CPSQ1; DEE89

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

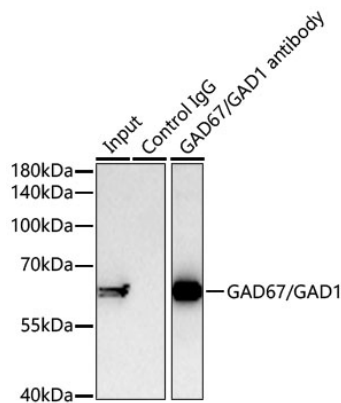
Affinity purification

### Storage

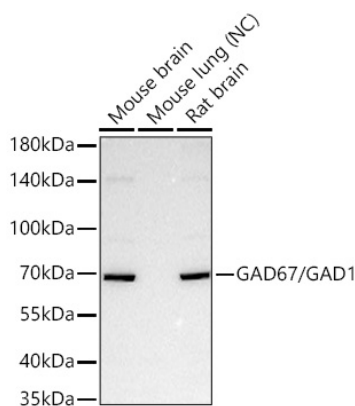
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: 10 mM sodium HEPES and 150 mM NaCl with 0.02% Sodium azide, 100 µg/ml BSA, 50% Glycerol, pH 7.5

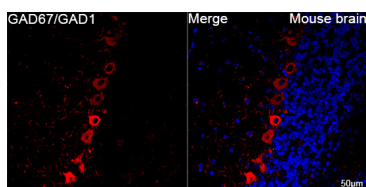
## Validation Data



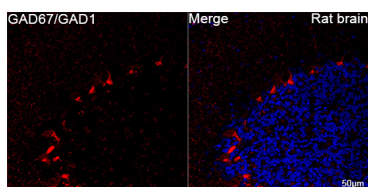
Immunoprecipitation of GAD67/GAD1 from 600 µg extracts of Mouse brain was performed using 0.5 µg of GAD67/GAD1 Rabbit mAb (A26748). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using GAD67/GAD1 Rabbit mAb (A26748) at a dilution of 1:1000.



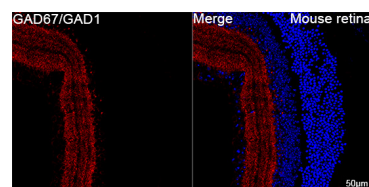
Western blot analysis of various lysates using GAD67/GAD1 Rabbit mAb (A26748) at 1:1000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Negative control (NC): Mouse lung  
 Exposure time: 30s.



Confocal imaging of paraffin-embedded Mouse brain tissue using GAD67/GAD1 Rabbit mAb (A26748, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IF staining. Objective: 40x.



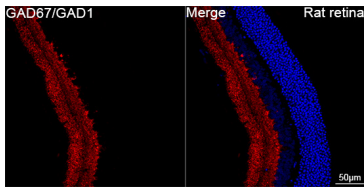
Confocal imaging of paraffin-embedded Rat brain tissue using GAD67/GAD1 Rabbit mAb (A26748, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IF staining. Objective: 40x.



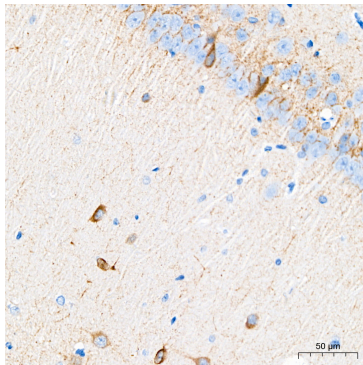
Confocal imaging of paraffin-embedded Mouse retina tissue using GAD67/GAD1 Rabbit mAb (A26748, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IF staining. Objective: 40x.

## Validation Data

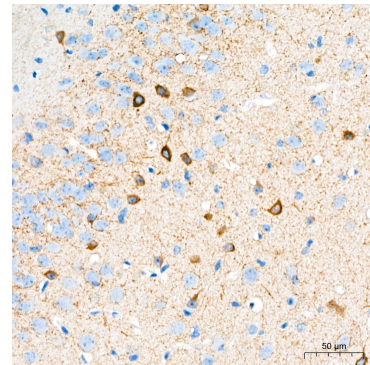
---



Confocal imaging of paraffin-embedded Rat retina tissue using GAD67/GAD1 Rabbit mAb (A26748, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, 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 GAD67/GAD1 Rabbit mAb (A26748) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using GAD67/GAD1 Rabbit mAb (A26748) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.