

**GAD2 Antibody (Ascites)**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM2049a**

**Specification**

**GAD2 Antibody (Ascites) - Product Information**

|                   |                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------|
| Application       | WB,E                                                                                                         |
| Primary Accession | <a href="#">Q05329</a>                                                                                       |
| Other Accession   | <a href="#">Q05683</a> , <a href="#">P48321</a> ,<br><a href="#">P48320</a> ,<br><a href="#">NP_000809.1</a> |
| Reactivity        | Human, Rat                                                                                                   |
| Predicted         | Mouse, Pig                                                                                                   |
| Host              | Mouse                                                                                                        |
| Clonality         | Monoclonal                                                                                                   |
| Isotype           | IgG1                                                                                                         |
| Calculated MW     | 65411                                                                                                        |
| Antigen Region    | 109-138                                                                                                      |

**GAD2 Antibody (Ascites) - Additional Information**

**Gene ID** 2572

**Other Names**

Glutamate decarboxylase 2, 65 kDa  
glutamic acid decarboxylase, GAD-65,  
Glutamate decarboxylase 65 kDa isoform,  
GAD2, GAD65

**Target/Specificity**

This GAD2 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 109-138 amino acids from human GAD2.

**Dilution**

WB~1:100~1600

**Format**

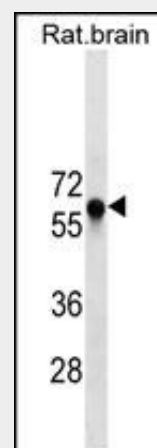
Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GAD2 Antibody (Ascites) is for research use



GAD2 Antibody (Cat. #AM2049a) western blot analysis in rat brain tissue lysates (35µg/lane). This demonstrates the GAD2 antibody detected the GAD2 protein (arrow).

**GAD2 Antibody (Ascites) - 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.

**GAD2 Antibody (Ascites) - References**

Bailey, S.D., et al. Diabetes Care  
33(10):2250-2253(2010)

only and not for use in diagnostic or therapeutic procedures.

#### **GAD2 Antibody (Ascites) - Protein Information**

**Name** GAD2

**Synonyms** GAD65

#### **Function**

Catalyzes the production of GABA.

#### **Cellular Location**

Cytoplasm, cytosol. Cytoplasmic vesicle. Cell junction, synapse, presynaptic cell membrane; Lipid-anchor. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Note=Associated to cytoplasmic vesicles In neurons, cytosolic leaflet of Golgi membranes and presynaptic clusters

Jia, P., et al. Schizophr. Res. 122 (1-3), 38-42 (2010) :

Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)

Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) :

Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :

#### **GAD2 Antibody (Ascites) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)