

**GAD2 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2100a**

**Specification**

**GAD2 Antibody - Product Information**

Application	<b>E, WB</b>
Primary Accession	<a href="#">Q05329</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>65.4kDa KDa</b>

**Description**

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.

**Immunogen**

Purified recombinant fragment of human GAD2 (AA: 1-100) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**GAD2 Antibody - Additional Information**

**Gene ID** 2572

**Other Names**

Glutamate decarboxylase 2, 4.1.1.15, 65 kDa glutamic acid decarboxylase, GAD-65, Glutamate decarboxylase 65 kDa isoform, GAD2, GAD65

**Dilution**

E~~1/10000

WB~~1/500 - 1/2000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GAD2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**GAD2 Antibody - Protein Information**

**Name** GAD2 ([HGNC:4093](#))

**Synonyms** GAD65

**Function**

Catalyzes the production of GABA.

**Cellular Location**

Cytoplasm, cytosol. Cytoplasmic vesicle. 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

**GAD2 Antibody - 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](#)