

**Goat Anti-GAD2 / GAD65 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1459a

## Specification

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### Goat Anti-GAD2 / GAD65 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">Q05329</a>
Other Accession	<a href="#">NP_001127838</a> , <a href="#">2572</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	65411

### Goat Anti-GAD2 / GAD65 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

#### Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### 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

Goat Anti-GAD2 / GAD65 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-GAD2 / GAD65 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

### Goat Anti-GAD2 / GAD65 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](#)

### Goat Anti-GAD2 / GAD65 Antibody - Images



AF1459a (0.1 µg/ml) staining of Human Brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-GAD2 / GAD65 Antibody - 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.

### Goat Anti-GAD2 / GAD65 Antibody - References

Common variants conferring risk of schizophrenia: a pathway analysis of GWAS data. Jia P, et al. *Schizophr Res*, 2010 Sep. PMID 20659789.  
Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. *PLoS One*, 2010 Jul 9. PMID 20634891.  
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