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Goat Anti-GAD2 / GAD65 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1459a

Specification

Goat Anti-GAD2 / GAD65 Antibody - Product Information

Application	**WB, E**
Primary Accession	Q05329
Other Accession	NP_001127838, 2572
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

Dilution
WB~~1:1000
E~~N/A

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 Cytomety
- 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

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