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GAD2 Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AM2049b

Specification

GAD2 Antibody - Product Information

Application	**WB,E**
Primary Accession	Q05329
Other Accession	NP_000809.1
Reactivity	**Human, Mouse, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Antigen Region	**445-473**

GAD2 Antibody - 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 445-473 amino acids from human GAD2.

Dilution
WB~~1:500

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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 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.

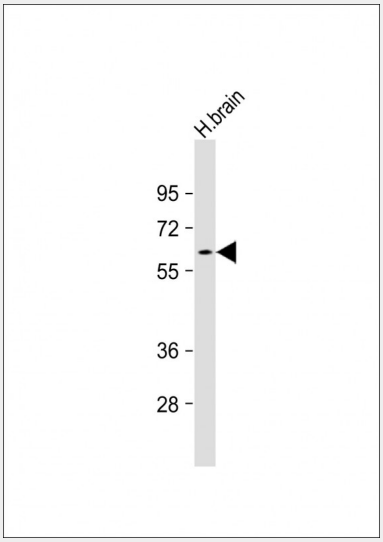
Cellular Location
Cytoplasm, cytosol. Cytoplasmic vesicle. Presynaptic cell membrane; Lipid-anchor. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Note=Associated to cytoplasmic vesicles In neurons, cytosolic leaflet of Golgi membranes and presynaptic clusters

GAD2 Antibody - Protocols

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

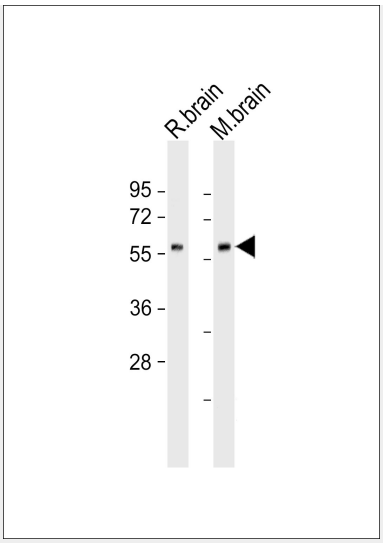
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GAD2 Antibody - Images



Anti- at 1:500 dilution + human brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 65 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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"All lanes : Anti-GAD2 Antibody at 1:500 dilution Lane 1: rat brain lysate Lane 2: mouse brain lysate Secondary Goat Anti-mouse IgG, (H+L),Peroxidase conjugated at 1/10000 dilution. Predicted band size : 65411 Da Blocking/Dilution buffer: 5% NFDM/TBST."

GAD2 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.

GAD2 Antibody - References

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