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GAD1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11228b

Specification

GAD1 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q99259
Other Accession	NP_000808
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**66897**
Antigen Region	**514-543**

GAD1 Antibody (C-term) - Additional Information

Gene ID 2571

Other Names
Glutamate decarboxylase 1, 67 kDa glutamic acid decarboxylase, GAD-67, Glutamate decarboxylase 67 kDa isoform, GAD1, GAD, GAD67

Target/Specificity
This GAD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 514-543 amino acids from the C-terminal region of human GAD1.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
GAD1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GAD1 Antibody (C-term) - Protein Information

Name GAD1 (HGNC:4092)

Synonyms GAD, GAD67

Function Catalyzes the synthesis of the inhibitory neurotransmitter gamma-aminobutyric acid (GABA) with pyridoxal 5'-phosphate as cofactor.

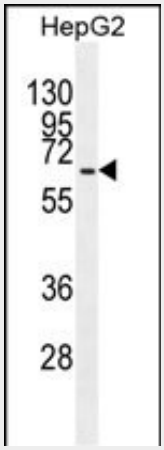
Tissue Location
[Isoform 1]: Expressed in brain.

GAD1 Antibody (C-term) - 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

GAD1 Antibody (C-term) - Images



GAD1 Antibody (C-term) (Cat. #AP11228b) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the GAD1 antibody detected the GAD1 protein (arrow).

GAD1 Antibody (C-term) - 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 autoantigen and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Deficiency in this enzyme has been shown to lead to pyridoxine dependency with seizures. Alternative splicing of this gene results in two products, the predominant 67-kD form and a less-frequent 25-kD form.

GAD1 Antibody (C-term) - References

Lanoue, A.C., et al. Exp. Neurol. 226(1):207-217(2010)
Jia, P., et al. Schizophr. Res. 122 (1-3), 38-42 (2010) :
Terranova, C., et al. Alcohol 44(5):407-413(2010)
Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)
Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :