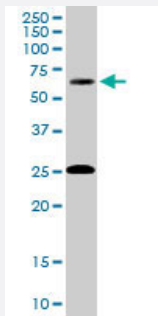


GAD2 polyclonal antibody

Catalog # PAB6778 Size 100 ug

Applications



Western Blot (Tissue lysate)

GAD2 polyclonal antibody (Cat # PAB6778) (0.1 ug/mL) staining of human brain lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description Goat polyclonal antibody raised against synthetic peptide of GAD2.

Immunogen A synthetic peptide corresponding to human GAD2.

Sequence C-TLEDNEERMSRLSK

Host Goat

Theoretical MW (kDa) 65.4, 65.4

Reactivity Human

Form Liquid

Purification Antigen affinity purification

Concentration 0.5 mg/mL

Quality Control Testing Antibody Reactive Against Synthetic Peptide.

Recommend Usage
 ELISA (1:32000)
 Western Blot (0.1-0.3 ug/mL)
 The optimal working dilution should be determined by the end user.

Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

GAD2 polyclonal antibody (Cat # PAB6778) (0.1 ug/mL) staining of human brain lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — GAD2

Entrez GeneID	2572
Protein Accession#	NP_000809.1
Gene Name	GAD2
Gene Alias	GAD65, MGC161605, MGC161607
Gene Description	glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)
Omim ID	138275
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	Glutamate decarboxylase-2 (pancreas) OTTHUMP00000019335 OTTHUMP00000019336 glutamate decarboxylase 2 glutamate decarboxylase 2 (pancreatic islets and brain, 65kD)

Publication Reference

- [Is glutamate decarboxylase 2 \(GAD2\) a genetic link between low birth weight and subsequent development of obesity in children?](#)

Meyre D, Boutin P, Tounian A, Deweirder M, Aout M, Jouret B, Heude B, Weill J, Tauber M, Tounian P, Froguel P.

The Journal of Clinical Endocrinology and Metabolism 2005 Apr; 94(4):2384.

Pathway

- [Alanine](#)
- [beta-Alanine metabolism](#)
- [Butanoate metabolism](#)
- [Metabolic pathways](#)
- [Taurine and hypotaurine metabolism](#)
- [Type I diabetes mellitus](#)

Disease

- [Alcoholism](#)
- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Anxiety Disorders](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Birth Weight](#)
- [Body Weight](#)
- [Bulimia](#)
- [Cardiovascular Diseases](#)

- [Cleft Lip](#)
- [Cleft Palate](#)
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