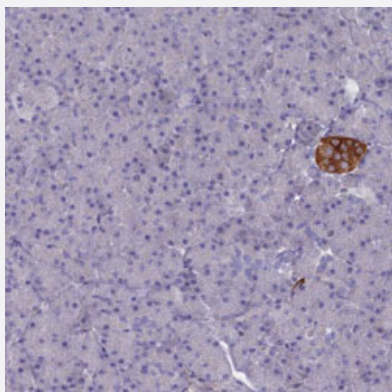


GAD2 polyclonal antibody

Catalog # PAB31500 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human pancreas with GAD2 polyclonal antibody (Cat # PAB31500) shows cytoplasmic positivity in islets of Langerhans.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human GAD2.
Immunogen	Recombinant protein corresponding to human GAD2.
Sequence	SGFWSFGSEDGSGDSENPGTARAWCQVAQKFTGGIGNKLCALLYGDAEKPAESGGSQPPRAA ARKAACACDQKPCSCSKVDVNYAFLHATDLLP
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).

Storage Instruction

Store at 4°C. For long term storage 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

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Gene Info — GAD2

Entrez GeneID[2572](#)**Protein Accession#**[Q05329](#)**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)

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](#)
- [Cognition](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hyperandrogenism](#)

- [Hypercholesterolemia](#)
- [Hyperglycemia](#)
- [Insulin Resistance](#)
- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [NARP](#)
- [Neoplasms](#)
- [Neurotic Disorders](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Psychiatric Status Rating Scales](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)