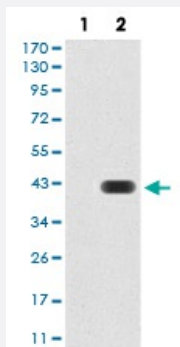


GAD2 monoclonal antibody, clone 5D9G9

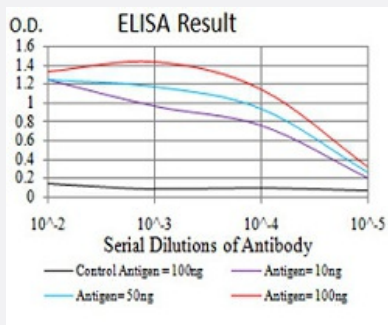
Catalog # MAB16751 Size 100 ug

Applications



Western Blot (Transfected lysate)

Western blot analysis of Lane 1: HEK293 cell; Lane 2: GAD2-hlgGfc transfected HEK293 cell with GAD2 monoclonal antibody.



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of GAD2 monoclonal antibody, clone 5D9G9.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human GAD2.
Immunogen	Recombinant protein corresponding to amino acid 1-100 of human GAD2 from <i>E. coli</i> .
Host	Mouse
Theoretical MW (kDa)	65.4
Reactivity	Human
Form	Liquid
Isotype	IgG1

Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry Immunocytochemistry Flow Cytometry The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% 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

- Western Blot (Transfected lysate)

Western blot analysis of Lane 1: HEK293 cell; Lane 2: GAD2-hlgGfc transfected HEK293 cell with GAD2 monoclonal antibody.

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis of GAD2 monoclonal antibody, clone 5D9G9.

Gene Info — GAD2

Entrez GeneID	2572
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](#)