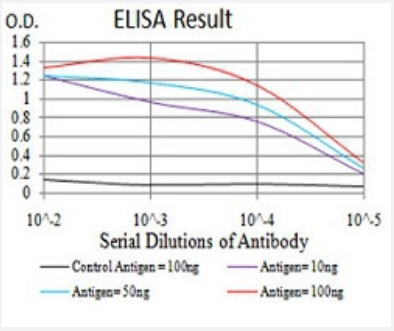
GAD2 monoclonal antibody, clone 5D9G9

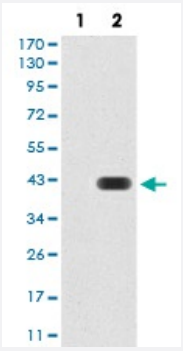
Catalog # MAB16751 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of GAD2 monoclonal antibody, clone 5D9G9.



Western Blot (Transfected lysate)

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

Specification

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

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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 shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay

  ELISA analysis of GAD2 monoclonal antibody, clone 5D9G9.

- Western Blot (Transfected lysate)

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

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 aut oantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the pro duction 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 aut oreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff ma n syndrome. Alternative splicing results in multiple transcript variants that encode the same protei n. [provided by RefSeq

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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

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- 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

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