GAD1/GAD2 (Human) Cell-Based ELISA Kit

Catalog # KA2881 Size 1 Kit

Specification

Product Description	GAD1/GAD2 (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of GAD1/GAD2 expression in cultured cells.
Suitable Sample	Attached Cell, Loosely Attached Cell, Suspension Cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human, Mouse
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

Gene Info — GAD1

Entrez GeneID	2571
Protein Accession#	Q99259 (Gene ID : 2571);Q05329 (Gene ID : 2572)
Gene Name	GAD1
Gene Alias	FLJ45882, GAD, SCP
Gene Description	glutamate decarboxylase 1 (brain, 67kDa)

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Omim ID	603513 605363
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 autoantigen and an autor eactive 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 seizu res. Alternative splicing of this gene results in two products, the predominant 67-kD form and a les s-frequent 25-kD form. [provided by RefSeq
Other Designations	OTTHUMP00000041055|glutamate decarboxylase 1|glutamate decarboxylase 1 (brain, 67kD)

Gene Info — GAD2

Entrez GeneID	2572
Protein Accession#	Q99259 (Gene ID : 2571);Q05329 (Gene ID : 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
Other Designations	Glutamate decarboxylase-2 (pancreas)|OTTHUMP00000019335|OTTHUMP00000019336|gluta mate decarboxylase 2|glutamate decarboxylase 2 (pancreatic islets and brain, 65kD)

Pathway

- Alanine
- Alanine

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- beta-Alanine metabolism
- beta-Alanine metabolism
- Butanoate metabolism
- Butanoate metabolism
- Metabolic pathways
- Metabolic pathways
- Taurine and hypotaurine metabolism
- Taurine and hypotaurine metabolism
- Type I diabetes mellitus
- Type I diabetes mellitus

Disease

- Alcoholism
- Alcoholism
- Alzheimer disease
- Anorexia Nervosa
- Anxiety Disorders
- Anxiety Disorders
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Autistic Disorder
- Bipolar Disorder
- Birth Weight
- Body Weight
- Bulimia
- Cardiovascular Diseases

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- Cleft Lip
- Cleft Lip
- Cleft Palate
- Cleft Palate
- Cognition
- Cognition
- Depressive Disorder
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Disease Models
- Disease Models
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Hyperandrogenism
- Hypercholesterolemia
- Hypercholesterolemia
- Hyperglycemia
- Insulin Resistance
- Kidney Failure
- Mental Disorders
- Mental Disorders
- Metabolic Syndrome X
- NARP
- Neoplasms

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- Neuropsychological Tests
- Neurotic Disorders
- Neurotic Disorders
- Obesity
- Osteoporosis
- Psychiatric Status Rating Scales
- Psychiatric Status Rating Scales
- Puberty
- Schizophrenia
- Schizophrenia
- Schizophrenic Psychology
- Schizophrenic Psychology
- Sleep Disorders
- Tobacco Use Disorder
- Weight Gain
- Weight Gain

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