

# GAD2 rabbit monoclonal antibody

Catalog # H00002572-K      Size 100 ug x up to 3

## Specification

|                                |                                                                                                                                                                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Rabbit monoclonal antibody raised against a human GAD2 peptide using ARM Technology.                                                                                                                                                                                         |
| <b>Immunogen</b>               | A synthetic peptide of human GAD2 is used for rabbit immunization.<br>Customer or Abnova will decide on the preferred peptide sequence.                                                                                                                                      |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                       |
| <b>Library Construction</b>    | Non-fusion antibody library from rabbit spleen ( <a href="#">ARM Technology</a> ).                                                                                                                                                                                           |
| <b>Expression</b>              | Overexpression vector and transfection into 293H cell line.                                                                                                                                                                                                                  |
| <b>Reactivity</b>              | Human                                                                                                                                                                                                                                                                        |
| <b>Purification</b>            | Protein A                                                                                                                                                                                                                                                                    |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                          |
| <b>Quality Control Testing</b> | Antibody reactive against human GAD2 peptide by ELISA and mammalian transfected lysate by Western Blot.                                                                                                                                                                      |
| <b>Storage Buffer</b>          | In 1x PBS, pH 7.4                                                                                                                                                                                                                                                            |
| <b>Storage Instruction</b>     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                     |
| <b>Deliverable</b>             | Up to three rabbit IgG clones of 100 ug each will be delivered to customer.                                                                                                                                                                                                  |
| <b>Note</b>                    | 1. Customer may provide cell or tissue lysate for antibody screening.<br>2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) <sub>2</sub> , IgG, scFv and different Fc and non-Fc conjugates per customer request. |

## Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

## Gene Info — GAD2

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">2572</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| GeneBank Accession# | <a href="#">GAD2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Name           | GAD2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Alias          | GAD65, MGC161605, MGC161607                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Description    | glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Omim ID             | <a href="#">138275</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 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](#)
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- [Weight Gain](#)