

## Rabbit GAD65 Polyclonal Antibody | anti-GAD2 antibody

Anti-GAD65 antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                       |
|-----------|--------|-------------------|------------------------------------|
| AAA45071  | Rabbit | Human, Mouse, Rat | Immunohistochemistry, Western Blot |

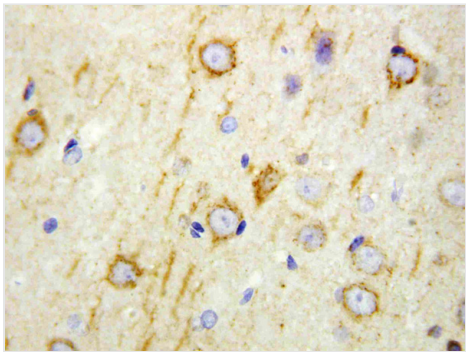
### PRODUCT SYNONYMS

GAD65; Polyclonal Antibody; Anti-GAD65 antibody; Glutamate decarboxylase 2; glutamate decarboxylase 2(pancreatic islets and brain; 65kDa); 65 kDa glutamic acid decarboxylase antibody; DCE 2 antibody; DCE2 antibody; DCE2\_HUMAN antibody; GAD 2 antibody; GAD 65 antibody; GAD-2 antibody; GAD-65 antibody; Gad2 antibody; Glutamate decarboxylase 2(pancreas) antibody; Glutamate Decarboxylase 2(pancreatic islets and brain 65kDa) antibody; Glutamate decarboxylase 2 antibody; Glutamate Decarboxylase 65 antibody; Glutamate decarboxylase 65 kDa isoform antibody; Glutamic Acid Decarboxylase 2 antibody; Glutamic Acid Decarboxylase 65 antibody; MGC161605 antibody; MGC161607 antibody; anti-GAD2 antibody

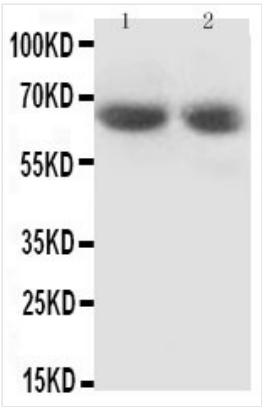
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                      |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                               |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                    |
| Clonality                                      | Polyclonal                                                                                                                                                                                           |
| Isotype                                        | IgG                                                                                                                                                                                                  |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                                         |
| Form/Format                                    | Lyophilized                                                                                                                                                                                          |
| Sequence Length                                | 585                                                                                                                                                                                                  |
| Applicable Applications for anti-GAD2 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                        |
| Immunogen                                      | A synthetic peptide corresponding to a sequence at the N-terminus of human GAD65 (21-37aa ENPGTARAWCQVAQKFT), identical to the related mouse and rat sequences.                                      |
| Contents                                       | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.                                                                                                               |
| Reconstitution                                 | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                 |
| Preparation and Storage                        | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

IMAGES



IHC (Immunohistochemistry)  
Anti-GAD65 antibody, AAA45071, IHC(P)IHC(P): Rat Brain Tissue



WB (Western Blot)  
Anti-GAD65 antibody, AAA45071, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Rat Brain Tissue Lysate

ADDITIONAL INFORMATION

Related Product Information for anti-GAD2 antibody

**Description:** Rabbit IgG polyclonal antibody for Glutamate decarboxylase 2(GAD2) detection. Tested with WB, IHC-P in Human, Mouse, Rat.

**Background:** Glutamate decarboxylase or glutamic acid decarboxylase(GAD) is an enzyme that catalyzes the decarboxylation of glutamate to GABA and CO<sub>2</sub>. GAD65 is the isoform with molecular weight of 65 kDa. Karlsen et al.(1991) mapped the GAD2 gene to chromosome 10p13-p11.2 by in situ hybridization. Bu et al.(1992) isolated a cDNA corresponding to the GAD2 gene from a human brain cDNA library. The deduced 585-amino acid protein has a molecular mass of 65 kD. GAD65 is target of autoantibodies in people who later develop type 1 diabetes mellitus or latent autoimmune diabetes.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 1352216                                                                                                                                             |
| NCBI GeneID                      | 2572                                                                                                                                                |
| UniProt Accession #              | Q05329; Q9UD87                                                                                                                                      |
| Molecular Weight                 | 65,411 Da                                                                                                                                           |
| NCBI Official Full Name          | Glutamate decarboxylase 2                                                                                                                           |
| NCBI Official Synonym Full Names | glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)                                                                                      |
| NCBI Official Symbol             | GAD2                                                                                                                                                |
| NCBI Official Synonym Symbols    | GAD65                                                                                                                                               |
| NCBI Protein Information         | glutamate decarboxylase 2; GAD-65; 65 kDa glutamic acid decarboxylase; Glutamate decarboxylase-2 (pancreas); glutamate decarboxylase 65 kDa isoform |
| UniProt Protein Name             | Glutamate decarboxylase 2                                                                                                                           |
| UniProt Gene Name                | GAD2                                                                                                                                                |
| UniProt Synonym Gene Names       | GAD65; GAD-65                                                                                                                                       |
| UniProt Entry Name               | DCE2_HUMAN                                                                                                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.