

**GAD2 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11118c****Specification**

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**GAD2 Antibody (Center) Blocking peptide - Product Information**Primary Accession [Q05329](#)**GAD2 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 2572**Other Names**

Glutamate decarboxylase 2, 65 kDa glutamic acid decarboxylase, GAD-65, Glutamate decarboxylase 65 kDa isoform, GAD2, GAD65

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GAD2 Antibody (Center) Blocking peptide - Protein Information****Name** GAD2 ([HGNC:4093](#))**Synonyms** GAD65**Function**

Catalyzes the production of GABA.

**Cellular Location**

Cytoplasm, cytosol. Cytoplasmic vesicle. Presynaptic cell membrane; Lipid-anchor. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Note=Associated to cytoplasmic vesicles In neurons, cytosolic leaflet of Golgi membranes and presynaptic clusters

**GAD2 Antibody (Center) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**GAD2 Antibody (Center) Blocking peptide - Images**

**GAD2 Antibody (Center) Blocking peptide - Background**

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.

**GAD2 Antibody (Center) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Jia, P., et al. Schizophr. Res. 122 (1-3), 38-42 (2010) :Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010) Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) :Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :