

**Anti-Human/Mouse GAD1/2 Polyclonal Antibody**

**Polyclonal Antibody**

**Cat.NO.: PA04115**

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3th Edition

**Description:** 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 of this gene results in two products, the predominant 67-kD form and a less-frequent 25-kD form. An important paralog of this gene is GAD2. GAD2 (Glutamate Decarboxylase 2) is a Protein Coding gene. Diseases associated with GAD2 include Stiff-Person Syndrome and Autoimmune Polyendocrine Syndrome, Type Ii. GO annotations related to this gene include protein heterodimerization activity and carboxy-lyase activity.

**Antigen:** Synthesized peptide derived from the C-terminal region of human GAD-65/67

**Form:**

**How to use:** 1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:** PBS (pH 7.4) containing 1% BSA

**Application:** This antibody can be used for western blotting in concentration of 1?5?g/ml.

**Specificity:**