Catalog Number: M03142-1

Pacie Information

**BOSTER BIOLOGICAL TECHNOLOGY** 

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

basic information		
Product Name	Anti-GAD65/GAD2 Antibody (Clone#4E12)	
Gene Name	GAD2	
Source	Mouse	
Clonality	Monoclonal	
Isotype	lgG1	
Species Reactivity	mouse, rat	
Tested Application	WB	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	

from the related mouse and rat sequences by one amino acid.

A synthetic peptide corresponding to a sequence at the N-terminus of human GAD65, different

Concentration	500 ag/iiii
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Purification protein G purified.

**Observed MW** 65 kDa

Western blot (WB):1:500-2000 **Dilution Ratios** 

 $500 \mu g/ml$ 

## **Storage**

**Immunogen** 

Concentration

12 months from date of receipt, -20°C as supplied.

# **Background Information**

Glutamate decarboxylase 2, also known as GAD65, is an enzyme that in humans is encoded by the GAD2 gene. 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.

### **Selected Validation Data**

#### **Product datasheet**

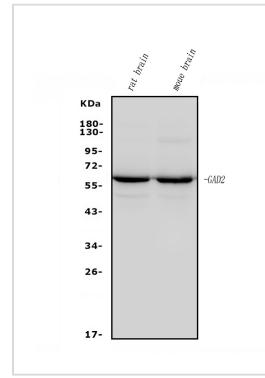
# Anti-GAD65/GAD2 Antibody (Clone#4E12)

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Western blot analysis of GAD65/GAD2 using anti-GAD65/GAD2 antibody (M03142-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-GAD65/GAD2 antigen affinity purified monoclonal antibody (M03142-1) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for GAD65/GAD2 at approximately 65 kDa. The expected band size for GAD65/GAD2 is at 65 kDa.