Product datasheet Anti-GAD65/GAD2 Antibody

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antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY

Catalog Number: BA0603

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

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Basic Information	
Product Name	Anti-GAD65/GAD2 Antibody
Gene Name	GAD2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GAD65, identical the related mouse and rat sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	65 kDa
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must determined by end user.

Storage

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.

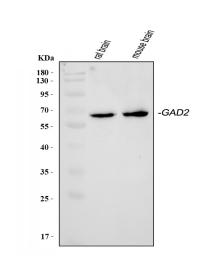


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Selected Validation Data



Western blot analysis of anti- GAD2 antibody (BA0603). The sample well of each lane was loaded with 30ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: mouse brain tissue lysates.

Use rabbit anti- GAD2 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog#EK1002). A specific band was detected for GAD2 at approximately 65KD. The expected band size for GAD2 is at 65KD.



IHC analysis of GAD65/GAD2 using anti-GAD65/GAD2 antibody (BA0603). GAD65/GAD2 was detected in a paraffin-embedded section of rat brain tissue. The tissue section was incubated with rabbit anti-GAD65/GAD2 Antibody (BA0603) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.