

## Anti-GAD65 Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat
Molecular Weight:	Theoretical: 65 kDa. Actual: 58 kDa.
Purification:	Protein A purified

### Applications

Verified Activity:	<ol style="list-style-type: none"><li>1. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GAD65 Polyclonal Antibody, Unconjugated (TMAB-06267) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&amp;L Secondary Antibody-HRP and DAB staining.</li><li>2. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GAD65 Polyclonal Antibody, Unconjugated (TMAB-06267) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&amp;L Secondary Antibody-HRP and DAB staining.</li><li>3. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GAD65 Polyclonal Antibody, Unconjugated (TMAB-06267) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&amp;L Secondary Antibody-HRP and DAB staining.</li><li>4. Paraformaldehyde-fixed, paraffin embedded Rat Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GAD65 Polyclonal Antibody, Unconjugated (TMAB-06267) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&amp;L Secondary Antibody-HRP and DAB staining.</li><li>5. 25 µg total protein per lane of various lysates (see on figure) probed with GAD65 polyclonal antibody, unconjugated (TMAB-06267) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.</li></ol>
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: mouse GAD65  
Antigen Species: Mouse  
Gene ID: 14417  
Uniprot ID: P48320

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### Research 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. [provided by RefSeq, Oct 2008]

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