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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-GAD67/GAD1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9183-Fluoro488

About GAD1

Glutamate decarboxylase 1 (brain, 67kDa) (GAD67), also known as GAD1, is a human gene. It is mapped to 2q31.1. 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 autoantigen and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Deficiency in this enzyme has been shown to lead to pyridoxine dependency with seizures. Alternative splicing of this gene results in two products, the predominant 67-kD form and a less-frequent 25-kD form.

Overview

Product Name	Anti-GAD67/GAD1 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20˚C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q99259

Technical Details

Immunogen	E.coli-derived human GAD67 recombinant protein (Position: N14-D122). Human GAD67 shares 95% amino acid (aa) sequence identity with both mouse and rat GAD67.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm

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Suggested Dilutions	Optimal dilutions should be determined by end users.

2 Publications Citing This Product

1. PubMed ID: 27630542, Excitatory and inhibitory neurons in the hippocampus exhibit molecularly distinct large dense core vesicles

2. PubMed ID: 26863207, Dietary Restriction Affects Neuronal Response Property and GABA Synthesis in the Primary Visual Cortex

Visit bosterbio.com/anti-gad67-picoband-trade-antibody-pb9183-boster.html to see all 2 publications.

Anti-GAD67/GAD1 Antibody - Fluoro488

For Research Use Only. Not for use in diagnostic procedures.