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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-GAD65/GAD2 Antibody Picoband® FITC Conjugated

Catalog Number: A03142-FITC

About GAD2

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.

Overview

Product Name	Anti-GAD65/GAD2 Antibody Picoband® FITC Conjugated
Reactive Species	Human, Mouse, Rat
Application	Flow Cytometry
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	Q05329

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GAD65, different from the related mouse and rat sequences by one amino acid.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

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3 Publications Citing This Product

1. PubMed ID: 10.1007/s00540-011-1199-z, Propofol protects against impairment of learning-memory and imbalance of hippocampal Glu/GABA induced by electroconvulsive shock in depressed rats

2. PubMed ID: 21444355, Shi J, Ma Y, Zheng M, Ruan Z, Liu J, Tian S, Zhang D, He X, Li G. Toxicol Ind Health. 2012 Feb;28(1):10-20. Doi: 10.1177/0748233711401264. Epub 2011 Mar 28. Effect Of Sub-Acute Exposure To Acrylamide On Gabaergic Neurons And Astrocytes In Weaning ...

3. PubMed ID: 26199611, Acrylamide neurotoxicity on the cerebrum of weaning rats

Visit bosterbio.com/anti-gad65-picoband-trade-antibody-a03142-boster.html to see all 3 publications.

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