Datasheet for ABIN655070

anti-GAD65 antibody (AA 109-138)

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Overview

Quantity:	400 µL
Target:	GAD65 (GAD2)
Binding Specificity:	AA 109-138
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GAD65 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This GAD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 109-138 amino acids from the Central region of human GAD2.
Clone:	RB19330
Isotype:	Ig Fraction
Predicted Reactivity:	M, Pig, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	GAD65 (GAD2)

Target Details

Alternative Name:	GAD2 (GAD2 Products)
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.
Molecular Weight:	65411
Gene ID:	2572
NCBI Accession:	NP_000809, NP_001127838
UniProt:	Q05329

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

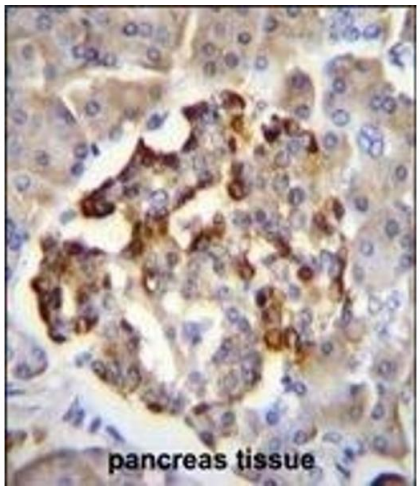
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in:	Jewett, Christian, Bacos, Lee, Zhu, Tsai: "Feedback modulation of neural network synchrony and

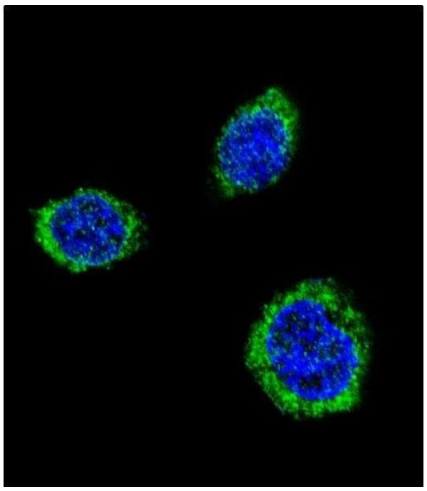
seizure susceptibility by Mdm2-p53-Nedd4-2 signaling." in: **Molecular brain**, Vol. 9, pp. 32, (2016) (PubMed).

Images



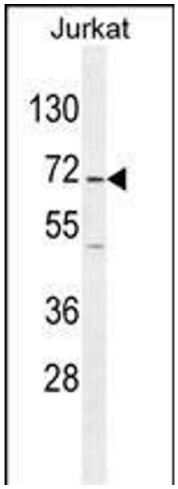
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. GAD2 Antibody (Center) (ABIN655070 and ABIN2844700) immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of GAD2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence

Image 2. Confocal immunofluorescent analysis of GAD2 Antibody (Center) (ABIN655070 and ABIN2844700) with 293 cell followed by Alexa Fluor® 488-conjugated goat anti-rabbit IgG (green). DI was used to stain the cell nuclear (blue).



Western Blotting

Image 3. GAD2 Antibody (Center) (ABIN655070 and ABIN2844700) western blot analysis in Jurkat cell line lysates (35 µg/lane).This demonstrates the GAD2 antibody detected the GAD2 protein (arrow).

Please check the product details page for more images. Overall 4 images are available for ABIN655070.