

## Product datasheet

# Anti-GAD65 + GAD67 antibody ab49832

★★★★☆ 5 Abreviews 19 References 2 Images

### Overview

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<b>Product name</b>	Anti-GAD65 + GAD67 antibody
<b>Description</b>	Rabbit polyclonal to GAD65 + GAD67
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Cat, Human, Pig
<b>Immunogen</b>	Synthetic peptide: K-DIDFLIEEIERLGQDL conjugated to KLH by a Glutaraldehyde linker, corresponding to C terminal amino acids 579-594 (with N-terminally added lysine) of Human GAD67. The sequence is identical in Human GAD 65 (amino acids 570-585). <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	Rat brain extract. Rat pancreas tissue sections.

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 0.0268% PBS
<b>Purity</b>	Ion Exchange Chromatography
<b>Purification notes</b>	Whole antiserum is fractionated and then further purified by ion-exchange chromatography to provide the IgG fraction of antiserum that is essentially free of other Rabbit serum proteins.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab49832** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/10000. Predicted molecular weight: 65 kDa.
IHC-P	★★★★★	1/1000.

## Target

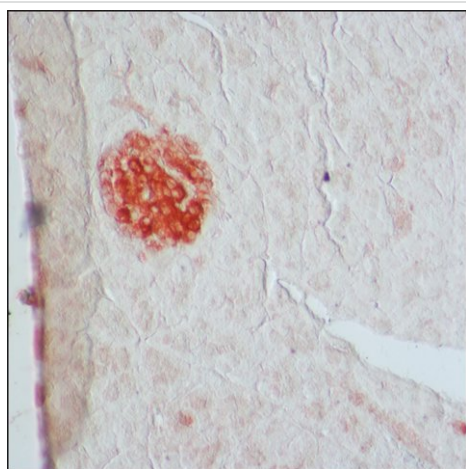
### Relevance

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.

### Cellular localization

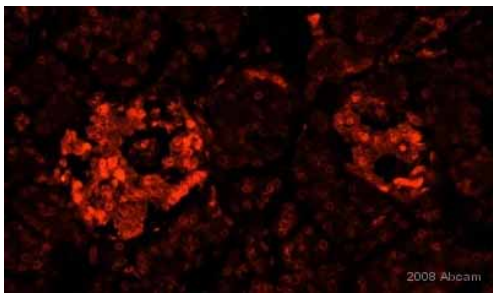
Cytoplasm; cytosol. Associated to cytoplasmic vesicles. In neurons, cytosolic leaflet of Golgi membranes and presynaptic clusters.

## Images



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Rat pancreatics sections labelling GAD65 & GAD67 with ab49832 at a concentration of 1/1000. The secondary used was a biotin peroxidase.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GAD65 + GAD67 antibody (ab49832)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GAD65 + GAD67 antibody (ab49832)

This image is courtesy of an anonymous Abreview

ab49832 staining human pancreas tissue sections by IHC-P. Sections were formaldehyde fixed and subjected to heat mediated antigen retrieval in 10mM citrate buffer prior to incubation with ab49832, diluted 1/2000, for 1 hour at 25°C. An Alexa Fluor® 546 conjugated goat anti-rabbit antibody, diluted 1/200, was used as the secondary.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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