Product datasheet

Anti-GAD65 + GAD67 antibody ab49832

Overview

Product name: Anti-GAD65 + GAD67 antibody
Description: Rabbit polyclonal to GAD65 + GAD67
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Mouse, Rat, Cat, Human, Pig
Immunogen: 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).
Positive control: Rat brain extract. Rat pancreas tissue sections.

Properties

Form: Liquid
Storage buffer: pH: 7.40
Preservative: 0.097% Sodium azide
Constituent: 0.0268% PBS
Purity: Ion Exchange Chromatography
Purification notes: Whole antisera is fractionated and then further purified by ion-exchange chromatography to provide the IgG fraction of antisera that is essentially free of other Rabbit serum proteins.
Clonality: Polyclonal
Isotype: IgG

Applications

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>★★★★★</td>
<td>1/1000.</td>
</tr>
</tbody>
</table>

**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.
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”

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors