


Product datasheet

Anti-GAD65 + GAD67 antibody ab11070

★★★★★ 5 Abreviews 36 References 1 Image

Overview

Product name	Anti-GAD65 + GAD67 antibody
Description	Rabbit polyclonal to GAD65 + GAD67
Host species	Rabbit
Tested applications	Suitable for: IHC-P, IHC-Fr, WB, ELISA
Species reactivity	Reacts with: Mouse, Rat, Chicken, Cat, Human, Zebrafish, Macaque monkey Predicted to work with: Pig 
Immunogen	Synthetic peptide: DFLIEEIERLGQDL , corresponding to C terminal amino acids 572-585 of Human GAD65+67. Run BLAST with Run BLAST with
Positive control	Recombinant Human GAD67 protein (ab114255) can be used as a positive control in WB. Brain.
General notes	This product should be stored undiluted. Storage in frost free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 12 months from date of despatch.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 1% BSA
Purity	IgG fraction
Purification notes	An immunoglobulin-rich fraction was prepared from whole serum by ammonium sulphate precipitation.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab11070** 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
IHC-P	★★★★☆	Use at an assay dependent concentration. PubMed: 20650017
IHC-Fr	★★★★★	1/200 - 1/5000.
WB	★★★★☆	1/1000 - 1/10000. Predicted molecular weight: 65 , 67 kDa.
ELISA		Use at an assay dependent concentration.

Target

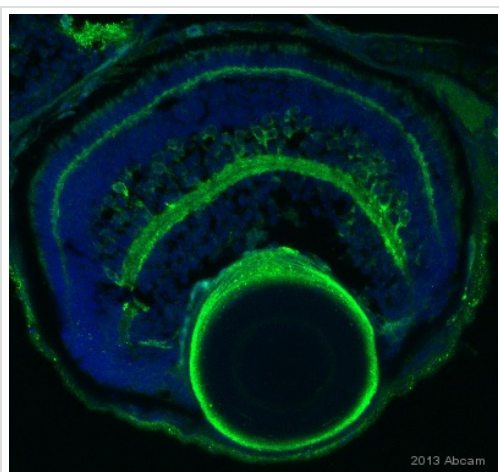
Relevance

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



ab11070 staining GABA transporter 2 in zebrafish retina sections by IHC-Fr. The tissue was fixed with paraformaldehyde and an antigen retrieval step was performed with sodium citrate pH 6. Blocking of the sample was done with 5% BSA in PBS containing 0.5% Triton X, for 60 minutes at 23°C, followed by staining with ab11070 at 1/200 in blocking solution for 16h at 4°C. An alexa 488 conjugated goat anti-rabbit polyclonal antibody at 1/1000 was used as the secondary antibody. Nuclei are stained in blue with DAPI. GAD65/67 expression can be observed in amacrine cells (in green).

Immunohistochemistry (Frozen sections) - Anti-GAD65 + GAD67 antibody (ab11070)

This image is courtesy of an Abreview submitted by Dr Ryan MacDonald

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