

## Product Datasheet

## Anti-GAD65/67 Antibody FL490 Conjugate



## Overview

|                           |   |
|---------------------------|---|
| <b>Catalog #</b>          | 75-508-FL490  |
| <b>Conjugate</b>          | FL490 Ex: 491 nm, Em: 515 nm  |
| <b>Isotype</b>            | IgG2a   |
| <b>Clone Number</b>       | L127/12   |
| <b>Size</b>               | 200 µL  |
| <b>Concentration</b>      | 0.5 mg/mL   |
| <b>Host Species</b>       | Mouse Monoclonal  |
| <b>Format</b>             | Purified by Protein A chromatography  |
| <b>Buffer</b>             | PBS with 0.09% azide  |
| <b>Applications</b>       | ICC, IHC  |
| <b>Species Reactivity</b> | Human, Mouse, and Rat   |
| <b>Immunogen</b>          | Fusion protein amino acids 1-594 (full-length) of human GAD67 (accession number Q99259) produced recombinantly in E. Coli |
| <b>Molecular Weight</b>   | 70 kDa  |
| <b>Cite this Antibody</b> | Antibodies Inc Cat# 75-508-FL490, RRID: AB_2940692  |

## Details

|                              |   |
|------------------------------|---|
| <b>Target Description</b>    | There are two forms of the enzyme glutamic-acid decarboxylase (GAD), a 65-kDa form (GAD65) and a 67-kDa form (GAD67) which are the result of the expression of different genes. Further splicing of GAD 67 produces one or two smaller variants, including GAD25 and GAD44. GAD67 and GAD65 are expressed in adult brain and the pancreas. The truncated forms GAD25 and GAD44 are expressed during embryonic development. Glutamic acid decarboxylase enzyme functions to catalyze the production of gamma-aminobutyric acid from L-glutamic acid. |
| <b>Specificity</b>           | Cross-reacts with GAD25, GAD44 and GAD65/GAD2   |
| <b>Purification Method</b>   | Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.  |
| <b>Quality Control Tests</b> | Each new lot of this antibody is tested to confirm that it recognizes a single immunoreactive band of expected molecular weight when used to probe brain lysate.  |

**Storage**

Aliquot and store at  $\leq -20^{\circ}\text{C}$  for long term storage. For short term storage, store at  $2-8^{\circ}\text{C}$ . For maximum recovery of product, centrifuge the vial prior to removing the cap.

**Our Guarantee**

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