

## Product Datasheet

## Anti-GAD67 Antibody FL490 Conjugate



## Overview

<b>Catalog #</b>	75-507-FL490
<b>Conjugate</b>	FL490 Ex: 491 nm, Em: 515 nm
<b>Isotype</b>	IgG2b
<b>Clone Number</b>	L127/8
<b>Size</b>	200 $\mu$ L
<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# 75-507-FL490, RRID: AB_2940688

## Details

<b>Target Description</b>	Glutamate decarboxylase 1, GAD67 or GAD1 is a member of the group II decarboxylase family and catalyzes the production of GABA from L-glutamic acid. GAD67 is expressed in brain (throughout the cell), in insulin producing $\beta$ cells of the pancreas, and several non-neuronal tissues during development. Alterations in GAD67 have been shown to lead to pyridoxine dependency with seizures. Other disorders associated with GAD67 are Cerebral Palsy, Spastic Quadriplegic, 1 and Inherited Congenital Spastic Tetraplegia.
<b>Specificity</b>	Cross-reacts with GAD25 Does not cross-react with GAD44 or 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.

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