

## Product Datasheet

## Anti-GABA-A-R-Gamma2L Antibody FL550 Conjugate



## Overview

<b>Catalog #</b>	75-442-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	N452/69
<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 360-445 (cytoplasmic C-terminus) of human GABA-A-R-Gamma2L (accession number P18507-2) produced recombinantly in E. Coli
<b>Molecular Weight</b>	45 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-442-FL550, RRID: AB_2940469

## Details

<b>Target Description</b>	Gamma-aminobutyric acid receptor subunit gamma-2, or GABA AR gamma2 is encoded by the gene GABRG2. GABA A receptors are members of the Cys-loop family of ligand-gated ion channels. GABA AR gamma2 is a subunit of the pentameric GABA receptors where GABA is the major inhibitory neurotransmitter in the vertebrate brain and mediates neuronal inhibition by binding to the GABA receptor and opening an integral chloride channel. GABA AR gamma2 has been found expressed in stomach and bladder. In brain, GABA AR gamma2 is expressed at the cell junction, synapse, postsynaptic cell membrane and cytoplasmic vesicle membrane. Mutations in this gene have been associated with epilepsy and febrile seizures. Note that GABA AR $\gamma$ 2 subunit has two forms, designated "short" ( $\gamma$ 2S) and "long" ( $\gamma$ 2L) that differ only in eight amino acids inserted into the large intracellular loop of the subunit (Whiting et al., 1990).
<b>Specificity</b>	Does not cross-react with GABA-A-R-Gamma2S, GABA-A-R-Gamma1 or GABAA-A-R-Gamma3
<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.

**Quality Control Tests**

Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.

**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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