

## Product Datasheet

## Anti-GABA-A-R-Alpha5 Antibody FL490 Conjugate



## Overview

<b>Catalog #</b>	75-401-FL490
<b>Conjugate</b>	FL490 Ex: 491 nm, Em: 515 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	N415/24
<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 368-419 (last cytoplasmic domain before extracellular C-terminus) of human GABA-A-R-Alpha5 (accession number P31644) produced recombinantly in E. Coli
<b>Molecular Weight</b>	55 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-401-FL490, RRID: AB_2940320

## Details

<b>Target Description</b>	Gamma-Aminobutyric Acid Type A Receptor Alpha5 Subunit or GABA(A) Receptor, Alpha 5 is encoded by the gene GABRA5. GABAA receptors are members of the Cys-loop family of ligand-gated ion channels. GABA AR alpha 5 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 alpha5 is highly expressed in brain at the cell junction, synapse, postsynaptic cell membrane and cytoplasmic vesicle membrane. Disorders involving the GABRA5 gene include Angelman Syndrome, Prader-willi syndrome and childhood absence epilepsy.
<b>Specificity</b>	Does not cross-react with GABA-A-R-Alpha2 (or other GABAA
<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 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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