

## Product Datasheet

## Anti-GABA-B-R1 Antibody FL550 Conjugate



## Overview

|                           |  |
|---------------------------|--|
| <b>Catalog #</b>          | 75-183-FL550   |
| <b>Conjugate</b>          | FL550 Ex: 550 nm, Em: 575 nm   |
| <b>Isotype</b>            | IgG1   |
| <b>Clone Number</b>       | N93A/49  |
| <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> | Chicken, Human, Mouse, Rabbit, and Rat   |
| <b>Immunogen</b>          | Fusion protein amino acids 873-977 (cytoplasmic C-terminus) of rat GABABR1 (accession number Q9Z0U4) produced recombinantly in E. Coli |
| <b>Molecular Weight</b>   | 115 kDa  |
| <b>Cite this Antibody</b> | Antibodies Inc Cat# 75-183-FL550, RRID: AB_2939677   |

## Details

|                            |   |
|----------------------------|---|
| <b>Target Description</b>  | Gamma-aminobutyric acid type B receptor subunit 1 or GABA BR1 is encoded by the gene GABBR1. GABA BR1 is a subunit of the G-protein coupled receptor for the neurotransmitter GABA (gamma-aminobutyric acid). It will inhibit neuronal activity through G protein-coupled second-messenger systems, which regulate the release of neurotransmitters and the activity of ion channels and adenylyl cyclase. GABA BR1 is highly expressed in many tissues including eye, atrium, ventricle, lung and colon. In brain, wide expression is seen with high levels in the cerebral cortical layers and hippocampus. Cellularly, it is found at the cell junction, synapse, the postsynaptic cell membrane and cytoplasmic vesicle membrane. Diseases associated with GABBR1 include Temporal Lobe Epilepsy and Persistent Vegetative State. |
| <b>Specificity</b>         | No cross-reactivity against GABABR1   |
| <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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