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Datasheet for 112-401-C81

GABA(A) Receptor gamma 2 Antibody

Overview

Description:	Anti-GABA(A) Receptor gamma 2 (RABBIT) Antibody - 112-401-C81
Item No.:	112-401-C81
Size:	50 µL
Applications:	IHC, WB
Reactivity:	Rat
Host Species:	Rabbit

Product Details

Background:	Gamma-aminobutyric acid (GABA) is the primary inhibitory neurotransmitter in the central nervous system, causing a hyperpolarization of the membrane through the opening of a Cl− channel associated with the GABAA receptor (GABAA-R) sub-type. GABAA-Rs are important therapeutic targets for a range of sedative, anxiolytic, and hypnotic agents and are implicated in several diseases including epilepsy, anxiety, depression, and substance abuse. The GABAA-R is a multimeric subunit complex. To date six αs, four βs and four γs, plus alternative splicing variants of some of these subunits, have been identified. Injection in oocytes or mammalian cell lines of cRNA coding for α- and β-subunits results in the expression of functional GABAA-Rs sensitive to GABA. However, co-expression of a γ-subunit is required for benzodiazepine modulation. The various effects of the benzodiazepines in brain may also be mediated via different α-subunits of the receptor. Phosphorylation of β-subunits of the receptor has been shown to modulate GABAA-R function. Anti-GABA(A) Receptor gamma 2 antibody is ideal for investigators involved in Neuroscience.
Synonyms:	rabbit anti-GABA(A) Receptor gamma 2 Antibody, Gamma-aminobutyric acid receptor subunit gamma-2, GABA(A) receptor subunit gamma-2, Gabrg2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	Gabrg2

Reactivity:	Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-GABA(A) Receptor gamma 2 Antibody was produced by repeated immunizations with rat GABA(A) Receptor gamma 2- Synthetic peptide corresponding to amino acid residues specific to the gamma 2 subunit.
Purity/Specificity:	Anti-GABA(A) Receptor gamma 2 Antibody is directed against rat GABA(A) Receptor gamma 2. The antibody was prepared from monospecific neat serum. Expect reactivity with the following species based on 100% sequence homology: chicken, human, mouse, non-human primate, zebra fish.
Relevant Links:	• NCBI - NP_899156.1 • GeneID - 29709 • UniProtKB - P18508.1

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-GABA(A) Receptor gamma 2 (Rabbit) antibody has been tested in Western Blotting and IHC. Expect a band of approximately 46kDa in size corresponding γ2-subunit of the GABAA receptor in Western blots of rat brain extracts. Specific conditions should by optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:400
WB:	1:1000

Formulation

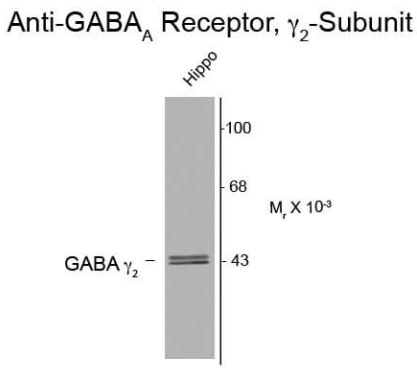
Physical State:	Liquid
Concentration:	Titrated value sufficient to run approximately 10 mini blots.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western blot of 10 µg of rat hippocampal lysate showing specific immunolabeling of the ~46k γ_2-subunit of the GABA$_A$-R.

Western Blot

Western Blot of Rabbit Anti-GABA(A) Receptor gamma 2 Antibody. Lane 1: rat hippocampal lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: GABA-A receptor gamma 2 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~46kDa, ~46kDa for γ2-subunit of the GABAA-R. Other band(s): none.

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