Datasheet for ABIN6658224

anti-GABRB2 antibody (Cytoplasmic Loop)

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Overview

Quantity:	100 µL
Target:	GABRB2
Binding Specificity:	Cytoplasmic Loop
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABRB2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	GABA(A) Receptor beta 2 Antibody
Immunogen:	Anti-GABA(A) Receptor beta 2 Antibody was produced by repeated immunizations with recombinant fusion proteins from the cytoplasmic loop of the beta 2 subunit of rat GABAA.
Isotype:	IgG
Cross-Reactivity (Details):	Anti-GABA(A) Receptor beta 2 Antibody is directed against rat GABA(A) Receptor beta 2.
Purification:	The antibody was affinity purified from monospecific antiserum by immunoaffinity purification.

Target Details

Target:	GABRB2
Alternative Name:	GABA(A) Receptor beta 2 (GABRB2 Products)

Target Details

Background:	Synonyms: Gamma-aminobutyric acid receptor subunit beta-2, GABA(A) receptor subunit beta-2, GABA(A) receptor subunit ß-2 Background: Anti-GABA(A) Receptor beta 2 Antibody detects GABA(A) Receptor beta 2. 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) subtype. 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 alphas, four betas and four gammas, plus alternative splicing variants of some of these subunits, have been identified. Injection in oocytes or mammalian cell lines of cRNA coding for alpha- and beta-subunits results in the expression of functional GABAA-Rs sensitive to GABA. However, coexpression of a gamma- 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. GABA(A) receptor beta 2 antibody is ideal for investigators involved in Neuroscience. Gene Name: GABRB2
Gene ID:	25451
UniProt:	P63138
Pathways:	Sensory Perception of Sound, Synaptic Membrane

Application Details

Application Notes:	Optional[Neutralization_Dilution]: 1:1000
Comment:	Anti-GABA(A) Receptor beta 2 (Rabbit) antibody is tested for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 55 kDa in size corresponding to the beta 2 subunit of the GABA(A) receptor in the appropriate cell lysate or extract.
Restrictions:	For Research Use only

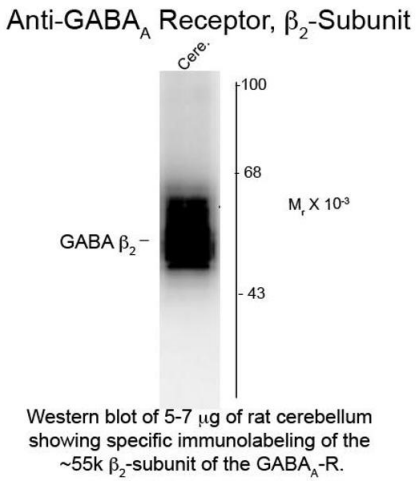
Handling

Format:	Liquid
Buffer:	Buffer: 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5 Stabilizer: 0.1 mg/mL Bovine Serum Albumin (BSA) - IgG and Protease free, 50 % (v/v) Glycerol

Handling

Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Images



Western blot of 5-7 µg of rat cerebellum showing specific immunolabeling of the ~55k β_2-subunit of the GABA$_A$-R.

Western Blotting

Image 1. Western Blot of Anti-GABA(A) Receptor beta 2 (Rabbit) Antibody - 612-401-D50 Western Blot of Rabbit anti-GABA(A) Receptor beta 2 antibody. Lane 1: rat cerebellum (Cb) lysate. Lane 2: none. Load: 7 µg per lane. Primary antibody: GABAA-R antibody at 1:400 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~55kDa/~55kDa for β2-subunit of the GABAA-R. Other band(s): none.