

Datasheet for ABIN6658274

anti-GABRA5 antibody (Cytoplasmic Loop)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µL
Target:	GABRA5
Binding Specificity:	Cytoplasmic Loop
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABRA5 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	GABA(A) Receptor alpha 5 Antibody
Immunogen:	Anti-GABA(A) Receptor alpha 5 Antibody was produced by repeated immunizations with recombinant fusion proteins from the cytoplasmic loop of the alpha 5 subunit of rat GABAA.
Isotype:	IgG
Cross-Reactivity (Details):	Anti-GABA(A) Receptor alpha 5 Antibody is directed against rat GABA(A) Receptor alpha 5.
Purification:	The antibody was affinity purified from monospecific antiserum by immunoaffinity purification.

Target Details

Target:	GABRA5
Alternative Name:	GABA(A) Receptor alpha 5 (GABRA5 Products)

Target Details

Background:	Synonyms: Gamma-aminobutyric acid receptor subunit alpha-5, GABA(A) receptor subunit alpha-5, Gabra5 Background: Anti-GABA(A) Receptor alpha 5 Antibody detects GABA(A) Receptor alpha 4. 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 alpha-subunits of the receptor. GABA(A) receptor alpha 5 antibody is ideal for investigators involved in Neuroscience. Gene Name: GABRA5
Gene ID:	29707
NCBI Accession:	NP_058991
UniProt:	P19969
Pathways:	Sensory Perception of Sound , Synaptic Membrane

Application Details

Application Notes:	Optional[Neutralization_Dilution]: 1:1000
Comment:	Anti-GABA(A) Receptor alpha 5 (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 alpha 5 subunit of the GABA(A) receptor in Western Blots of rat brain extracts.
Restrictions:	For Research Use only

Handling

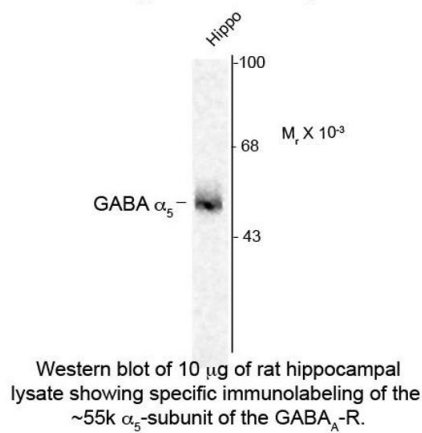
Format:	Liquid
Buffer:	Buffer: 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5

Handling

	Stabilizer: 0.1 mg/mL Bovine Serum Albumin (BSA) - IgG and Protease free, 50 % (v/v) Glycerol
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

Anti-GABA_A Receptor, α₅-Subunit



Western Blotting

Image 1. Western blot of GABAA Receptor a 5 Antibody Western Blot of Rabbit anti-GABAA Receptor a 5 Antibody. Lane 1: rat hippocampus. 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 α5-subunit of the GABAA-R. Other band(s): none.