

Datasheet for ABIN6658231

anti-GABRA2 antibody (Cytoplasmic Loop)**1** Image**1** Publication[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	GABRA2
Binding Specificity:	Cytoplasmic Loop
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABRA2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Immunogen: Anti-GABA(A) Receptor alpha 2 Antibody was produced in rabbit by repeated immunizations with a fusion protein from the cytoplasmic loop of the rat receptor alpha 2 subunit. Immunogen Type: Recombinant Protein
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Cross-Reactivity (Details):	Cross reactivity to GABA(A) from other species has not been determined.
Purification:	Anti-GABA(A) Receptor alpha 2 antibody is directed against rat GABA(A) receptor alpha 2 protein. The antibody was affinity purified from monospecific antiserum by immunoaffinity purification. Labeling is absent in α2-subunit knockout animals. Reactivity is expected from bovine, canine, human, non-human primate, Zebrafish.

Target Details

Target:	GABRA2
Alternative Name:	GABA(A) Receptor alpha 2 (GABRA2 Products)
Background:	<p>Synonyms: Gamma-aminobutyric acid receptor subunit alpha-2, GABA(A) receptor subunit alpha-2</p> <p>Background: GABA(A) Receptor alpha 2 Antibody detects GABA(A) receptor alpha 2 protein. 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 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, coexpression 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. GABA(A) receptor alpha 2 antibody is ideal for investigators involved in Neuroscience.</p> <p>Gene Name: GABRA2</p>
Gene ID:	61856
NCBI Accession:	NP_001129251
UniProt:	P23576

Application Details

Application Notes:	<p>Application Note: Anti-GABA(A) Receptor alpha 2 (Rabbit) Antibody is suitable for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 51 kDa in size corresponding to the alpha 2 subunit of the GABA(A) receptor in the appropriate cell lysate or extract.</p> <p>Western Blot Dilution: 1:1000</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
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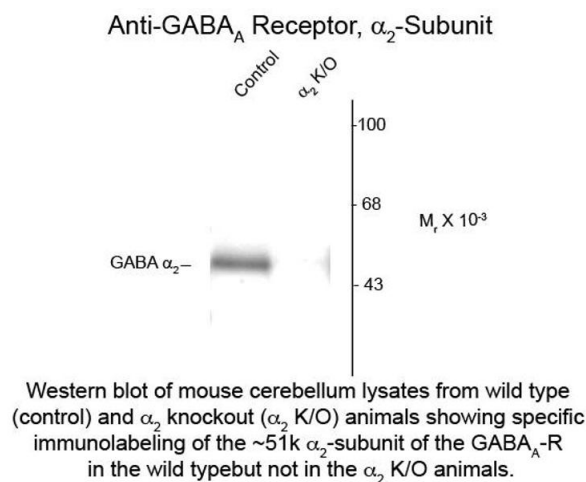
Handling

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
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.

Publications

Product cited in:	Zu, Wang, Ping, Sun: "Tan IIA inhibits H1299 cell viability through the MDM4-IAP3 signaling pathway." in: Molecular medicine reports , Vol. 17, Issue 2, pp. 2384-2392, (2018) (PubMed).
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Images



Western Blotting

Image 1. Western Blot of Anti-GABA(A) Receptor alpha 2 (Rabbit) Antibody - 600-401-D45 Western Blot of Anti-GABA(A) Receptor alpha 2 (Rabbit) Antibody. Lane 1: mouse brain lysates from wild type. Lane 2: mouse brain lysates from α2-knockout (α2-K/O). Load: 10 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: ~51kDa/~51kDa for α2-subunit of the GABAA-R. Other band(s): none.