Datasheet for ABIN6658222

anti-GABRA6 antibody

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Overview

Quantity:	50 µL
Target:	GABRA6
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABRA6 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	GABAA Receptor alpha 6 Antibody
Immunogen:	Anti-GABA(A) Receptor a 6 Antibody was produced by repeated immunizations with rat GABA(A) receptor alpha 6- Synthetic peptide corresponding to amino acid specific to the alpha 6 subunit.
Isotype:	IgG
Cross-Reactivity (Details):	Anti-GABA(A) Receptor alpha 6 Antibody is directed against rat GABA(A) Receptor alpha 6.
Purification:	The antibody was prepared from monospecific neat serum.

Target Details

Target:	GABRA6
Alternative Name:	GABA(A) Receptor alpha 6 (GABRA6 Products)

Target Details

Background:	Synonyms: Gamma-aminobutyric acid receptor subunit alpha-6, GABA(A) receptor subunit alpha-6 Background: Anti-GABA(A) Receptor alpha 6 Antibody detects GABA(A) Receptor alpha 6. 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. Phosphorylation of β-subunits of the receptor has been shown to modulate GABAA-R function. Anti-GABA(A) receptor alpha 6 antibody is ideal for investigators involved in Neuroscience. Gene Name: GABRA6
Gene ID:	29708
NCBI Accession:	NP_068613
UniProt:	P30191
Pathways:	Synaptic Membrane

Application Details

Application Notes:	Optional[Neutralization_Dilution]: 1:1000
Comment:	Anti-GABA(A) Receptor alpha 6 (Rabbit) antibody has been tested in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 57 kDa in size corresponding to the alpha 6 subunit of the GABA(A) receptor in the appropriate cell lysate or extract.
Restrictions:	For Research Use only

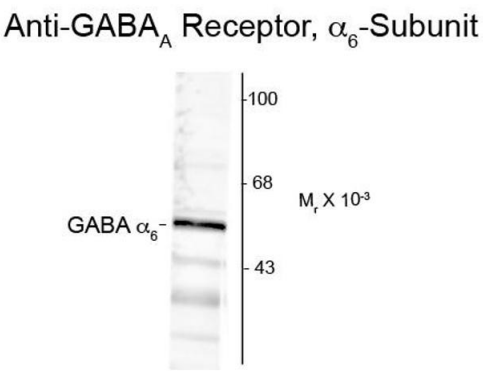
Handling

Format:	Liquid

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 10 μg of rat cortex lysate showing specific immunolabeling of the ~57k α_6-subunit of the GABA$_A$-R.

Western Blotting

Image 1. Western Blot of Anti-GABA(A) Receptor alpha 6 (Rabbit) Antibody - 100-401-D48 Western Blot of Rabbit Anti-GABA(A) Receptor alpha 6 (Rabbit) Antibody. Lane 1: rat cortex lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: GABA(A) Receptor alpha 6 antibody at 1:1000 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: ~57k ,~57k for α6-subunit of the GABAA-R. Other band(s): none.