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Datasheet for 100-401-D48

GABAA Receptor alpha 6 Antibody

Overview

Description:	Anti-GABA(A) Receptor alpha 6 (RABBIT) Antibody - 100-401-D48
Item No.:	100-401-D48
Size:	50 µL
Applications:	WB
Reactivity:	Mouse, Rat
Host Species:	Rabbit

Product Details

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.
Synonyms:	Gamma-aminobutyric acid receptor subunit alpha-6, GABA(A) receptor subunit alpha-6
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	Gabra6

Reactivity:	Mouse, Rat
Immunogen Type:	Conjugated Peptide
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.
Purity/Specificity:	Anti-GABA(A) Receptor alpha 6 Antibody is directed against rat GABA(A) Receptor alpha 6. The antibody was prepared from monospecific neat serum. This antibody is directed against rat GABA(A) Receptor alpha 6 proteins. Reactivity is expected from mouse. Cross reactivity with GABA(A) Receptor alpha 6 from other sources has not been determined.
Relevant Links:	• UniProtKB - P30191 • GeneID - 29708 • NCBI - NP_068613.1

Application Details

Tested Applications:	WB
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

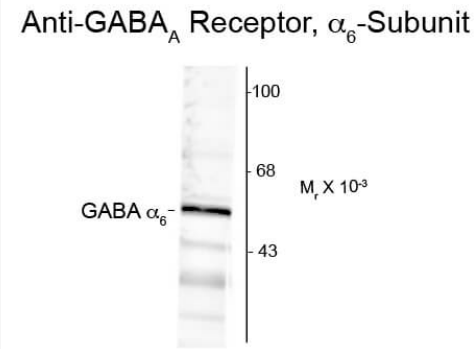
Formulation

Physical State:	Liquid

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

Western Blot

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: IRDye800™ 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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.