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Datasheet for 200-301-F30

GABA-A Receptor alpha 1 Antibody

Overview

Description:	Anti-GABA(A) Receptor alpha 1 protein (MOUSE) Monoclonal Antibody - 200-301-F30
Item No.:	200-301-F30
Size:	100 µg
Applications:	IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	The GABA-A receptor is a member of the superfamily of fast acting ligand-gated ion channels. The individual subunits of these receptors have similar sequences and structural features. GABA-A receptors are the major fast inhibitory neurotransmitter gated ion channels in the brain. Anti-GABAA RA1 Antibody is useful for researchers interested in Ion Channels research, Neuroscience, GABA receptors and neurotransmitters.
Synonyms:	Gamma-aminobutyric acid receptor subunit alpha-1, GABA(A) receptor subunit alpha-1, Gabra-1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	N95/35
Format:	IgG1

Target Details

Gene Name:	Gabra1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	GABA-A Receptor Alpha 1 protein Antibody was produced in mice by repeated immunizations with fusion protein corresponding to a near c-terminal region of mouse GABA-A-R-alpha1.

Purity/Specificity:	Anti-GABA-A receptor alpha 1 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with GABA-A receptor alpha 1 from mouse, human, and rat based on 100% homology with the immunizing sequence. No cross-reactivity against GABA-A-R-Beta 2 or –Beta 3. Cross-reactivity with GABA-A receptor alpha 1 from other sources has not been determined.
Relevant Links:	• NCBI - NP_034380.1 • GeneID - 14394 • UniProtKB - P62812

Application Details

Tested Applications:	IF, IHC, WB
Application Note:	Anti-GABA-A receptor alpha 1 Antibody is tested for use in WB, IHC-P, and IF microscopy. Expect a band approximately ~55kDa on specific lysates. Antibody is provided in PBS pH 7.4. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1.0-10 µg/mL
IHC:	0.1-1.0 µg/mL
WB:	1 µg/mL

Formulation

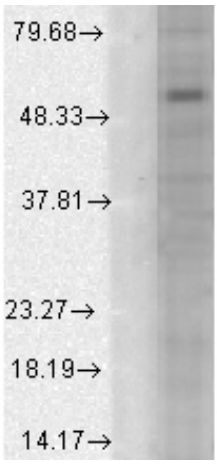
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of mouse anti-GABA-A Receptor ALPHA 1 protein antibody. Lane 1: human cell line mix. Lane 2: none. Load: 35 µg per lane. Primary antibody: GABA-A Receptor ALPHA 1 protein antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 54.1 kDa, ~55 kDa for GABA-A Receptor ALPHA 1 protein. 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.