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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

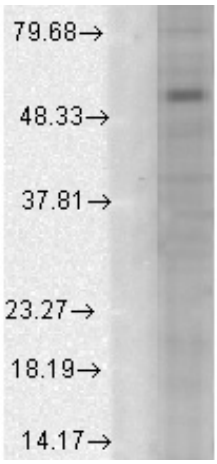
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

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.

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