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Datasheet for 200-301-G23

NR2B Antibody

Overview

Description:	Anti-NR2B (MOUSE) Monoclonal Antibody - 200-301-G23
Item No.:	200-301-G23
Size:	100 µg
Applications:	IF, IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	NR2B containing receptors have been implicated in synaptic plasticity, memory formation and pain modulation. Studies suggest that the NR2B subunit of glutamate receptors may be potential targets for relieving pain; NR2B may be a probable target for anti-nociceptive drugs, and may also be useful as analgesics.
Synonyms:	NMDAR2B, hNR3, MGC142180, glutamate receptor subunit epsilon-2, NR3, NR2B, N-methyl D-aspartate receptor subtype 2B
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S59-36
Format:	IgG2b

Target Details

Gene Name:	Grin2b
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	NR2B Antibody was produced in mice by repeated immunizations raised against a fusion protein corresponding near the extracellular N-terminus region of rat NR2B.

Purity/Specificity:	Anti-NR2B Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with NR2B from human, mouse, and rat based on 100% homology with the immunizing sequence. No cross-reactivity against NR2A. Cross-reactivity with NR2B from other sources has not been determined. Ion Channels research.
Relevant Links:	• NCBI - NP_036706.1 • GeneID - 24410 • UniProtKB - Q00960

Application Details

Tested Applications:	IF, IHC, IP, WB
Application Note:	Anti-NR2B Antibody is tested for use in WB, IHC-P, IF, and IP. Expect a band approximately ~166kDa on specific lysates. 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:	1.0-10ug/mL
IHC:	0.1-1.0ug/mL
IP:	User Optimized
WB:	1-10ug/mL

Formulation

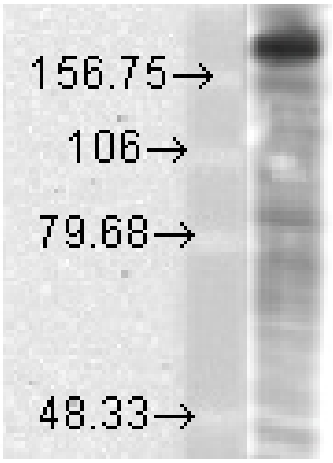
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet 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-NR2B total antibody. Lane 1: Rat Brain Membrane Lysate. Primary antibody: NR2B total antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG:HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size: 166kDa/166kD. Other band(s): none.

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