

Datasheet for ABIN2483207

**anti-GRIN2B antibody (AA 20-271) (Atto 488)**[Go to Product page](#)**6** Images

## Overview

Quantity:	100 µg
Target:	GRIN2B
Binding Specificity:	AA 20-271
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GRIN2B antibody is conjugated to Atto 488
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP), Immunocytochemistry (ICC), Antibody Array (AA)

## Product Details

Immunogen:	Fusion protein amino acids 20-271 (extracellular N-terminus) of rat NR2B
Clone:	S59
Isotype:	IgG2b
Specificity:	Detects ~166 kDa. No cross-reactivity against NR2A.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

## Target Details

Target:	GRIN2B
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## Target Details

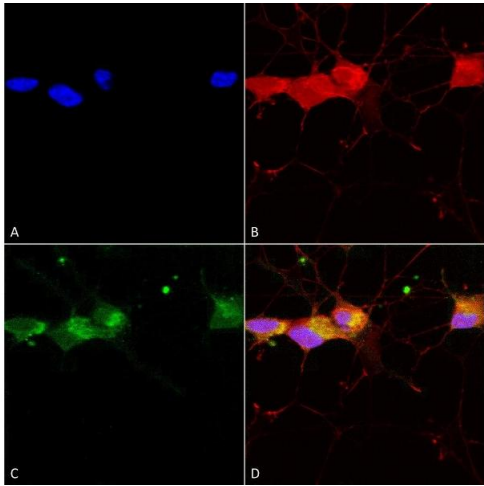
Alternative Name:	NR2B ( <a href="#">GRIN2B Products</a> )
Background:	NR2B containing receptors have been implicated in synaptic plasticity, memory formation and pain modulation (1). Studies suggest that the NR2B subunit of glutamate receptors may be potential targets for relieving pain, NR2B may be a probable target for anti-nociceptive drugs, and may also be useful as analgesics (2).
Gene ID:	24410
NCBI Accession:	<a href="#">NP_036706</a>
UniProt:	<a href="#">Q00960</a>
Pathways:	<a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Synaptic Membrane</a> , <a href="#">Feeding Behaviour</a> , <a href="#">Regulation of long-term Neuronal Synaptic Plasticity</a>

## Application Details

Application Notes:	<ul style="list-style-type: none"><li>• WB (1:1000)</li><li>• IHC (1:1000)</li><li>• ICC/IF (1:100)</li><li>• optimal dilutions for assays should be determined by the user.</li></ul>
Comment:	1 µg/ml of ABIN2483207 was sufficient for detection of NR2B in 10 µg of rat brain lysate by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

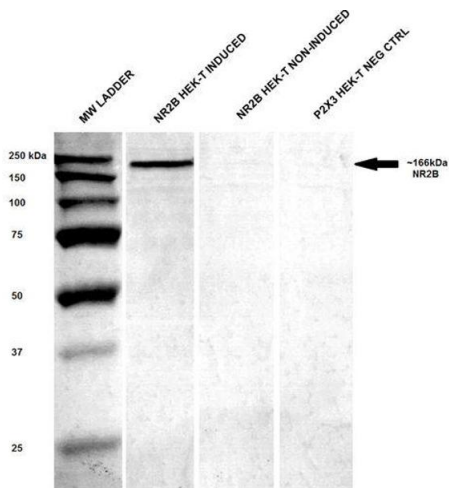
## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



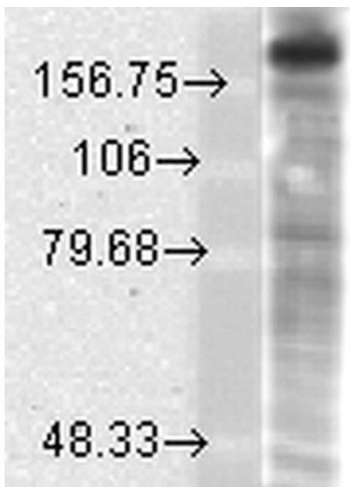
### Immunocytochemistry

**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GluN2B/NR2B Monoclonal Antibody, Clone S59-36 (ABIN2483207). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-GluN2B/NR2B Monoclonal Antibody (ABIN2483207) at 1:50 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) GluN2B/NR2B Antibody (D) Composite.



### Western Blotting

**Image 2.** Western Blot analysis of Human HEK-T lysates showing detection of GluN2B/NR2B protein using Mouse Anti-GluN2B/NR2B Monoclonal Antibody, Clone S59-36 . Primary Antibody: Mouse Anti-GluN2B/NR2B Monoclonal Antibody at 1:250.



### Western Blotting

**Image 3.** Western Blot analysis of Rat brain membrane lysate showing detection of GluN2B/NR2B protein using Mouse Anti-GluN2B/NR2B Monoclonal Antibody, Clone S59-36 . Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-GluN2B/NR2B Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN2483207.