

**GluN2B/NR2B Antibody**  
**GluN2B/NR2B Antibody, Clone S59-20**  
**Catalog # ASM10209****Specification**

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**GluN2B/NR2B Antibody - Product Information**

Application	WB, IHC, ICC, IP, AM
Primary Accession	<a href="#">Q00960</a>
Other Accession	<a href="#">NP_036706.1</a>
Host	Mouse
Isotype	IgG2a
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal

**Description**

Mouse Anti-Rat GluN2B/NR2B Monoclonal IgG2a

**Target/Specificity**

Detects ~166kDa. No cross-reactivity against NR2A.

**Other Names**

NMDAR2B Antibody, hNR3 Antibody, MGC142180 Antibody, glutamate receptor subunit epsilon-2 Antibody, NR3 Antibody, GluN2B Antibody, hNR3 Antibody, MRD6 Antibody, NMDAR2B Antibody, NR2B Antibody

**Immunogen**

Fusion protein amino acids 20-271 (N-terminus) of rat NR2B

**Purification**

Protein G Purified

Storage **-20°C**

**Storage Buffer**

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature

**Blue Ice or 4°C**

**Certificate of Analysis**

1 µg/ml of SMC-333 was sufficient for detection of NR2B/GluN2B in 10 µg of rat brain lysate by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

**Cellular Localization**

Cell Membrane | Cell Junction | Synapse | Postsynaptic Cell Membrane

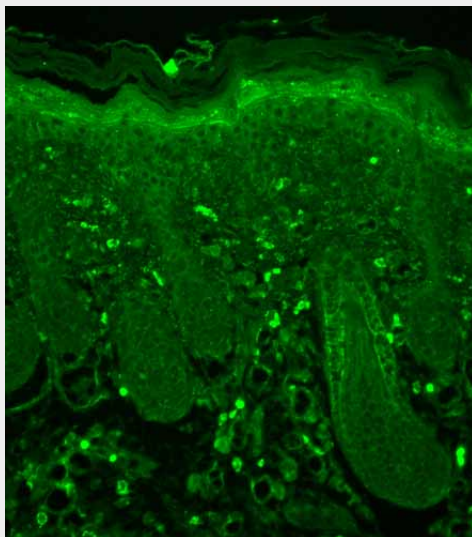
**GluN2B/NR2B Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

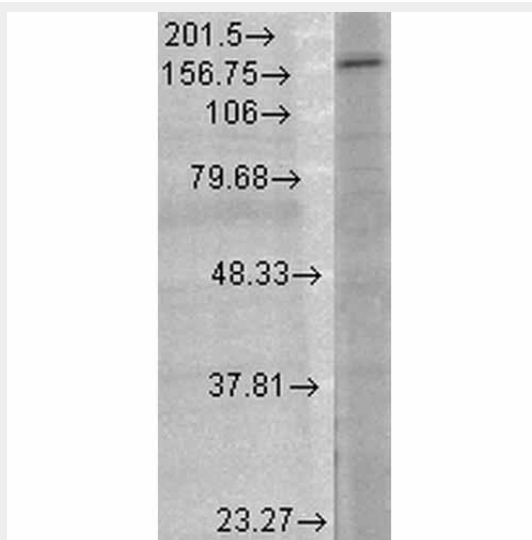
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## GluN2B/NR2B Antibody - Images



Immunohistochemistry analysis using Mouse Anti-GluN2B/NR2B Monoclonal Antibody, Clone S59-20 (ASM10209). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-GluN2B/NR2B Monoclonal Antibody (ASM10209) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Positive (dull) suprabasal staining in the epidermis and some hair follicle localization.



Western Blot analysis of Rat brain membrane lysate showing detection of GluN2B/NR2B protein using Mouse Anti-GluN2B/NR2B Monoclonal Antibody, Clone S59-20 (ASM10209). Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-GluN2B/NR2B Monoclonal Antibody (ASM10209) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

## GluN2B/NR2B Antibody - Background

NR2B/GluN2B 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).

#### **GluN2B/NR2B Antibody - References**

1. Zhuo M. (2009) Mol Brain. 2(1): 4
2. Gurwitz D, and Weizman A. (2002) Drug Discovery Today, 7(7): 403-406.