



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-GluN1/NR1 Antibody [S308-48]

Mouse Anti-Rat GluN1/NR1 Monoclonal IgG1  
Catalog No. SMC-410



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

GluN1/NR1 Antibody

### Description

Mouse Anti-Rat GluN1/NR1 Monoclonal IgG1

### Species Reactivity

Human, Mouse, Rat

### Applications

WB, IHC, ICC/IF

### Antibody Dilution

WB (1:1000), IHC (1:1000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

### Host Species

Mouse

### Immunogen Species

Rat

### Immunogen

Fusion protein amino acids 42-361 (extracellular N-terminus) of rat NR1

### Concentration

1 mg/ml

### Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

## Properties

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### Storage Buffer

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

### Storage Temperature

-20°C

### Shipping Temperature

Blue Ice or 4°C

### Purification

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Protein G Purified

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**Clonality**

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Monoclonal

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**Clone Number**

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S308-48

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**Isotype**

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IgG1

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**Specificity**

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Detects ~105kDa.

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**Cite This Product**

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Mouse Anti-Rat GluN1 Monoclonal, Clone S308-48 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-410)

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**Certificate Of Analysis**

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1 µg/ml of SMC-410 was sufficient for detection of NR1 glutamate receptor in 20 µg of rat brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

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**Biological Description**

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**Alternative Names**

NMDAR1 Antibody, NMDA Receptor 1 Antibody, NMDAR Antibody, NMDA1 Antibody, GRIN1 Antibody, Glutamate [NMDA] receptor subunit zeta-1 Antibody, Glutamate receptor ionotropic N methyl D aspartate 1 Antibody, MRD8 Antibody, N methyl D aspartate receptor Antibody, N methyl D aspartate receptor channel subunit zeta 1 Antibody, N methyl D aspartate receptor subunit NR1 Antibody, NMD-R1 Antibody, NMDA 1 Antibody, NMDA R1 Antibody, NMDZ1\_HUMAN Antibody, NR1 Antibody, GluN1 Antibody

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**Research Areas**

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Cell Signaling, Glutamate Receptors, Neuroscience, Neurotransmitter Receptors, NMDA Receptors

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**Cellular Localization**

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Cell Junction, Cell membrane, Postsynaptic cell membrane, Synapse

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**Accession Number**

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NP\_058706.1

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**Gene ID**

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24408

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**Swiss Prot**

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P35439

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**Scientific Background**

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The NMDA receptor (NMDAR), a glutamate receptor, is the predominant molecular device for controlling synaptic plasticity and memory function (1). The NMDA receptor forms a heterotetramer between two NR1 and two NR2 subunits (the subunits are also called glutamate-binding NMDA receptor subunits or GluN for short); two obligatory NR1 subunits and two regionally localized NR2 subunits. A related gene family of NR3 A and B subunits have an inhibitory effect on receptor activity. Multiple receptor isoforms with distinct brain distributions and functional properties arise by selective splicing of the NR1 transcripts and differential expression of the NR2 subunits.

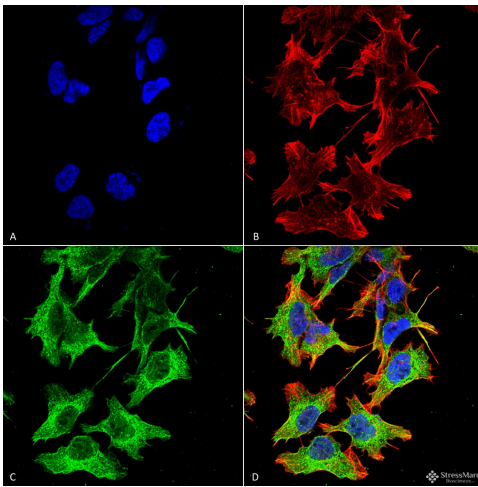
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**References**

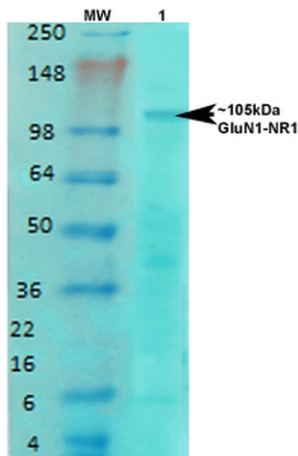
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1. Li F., and Tsien J.Z. (2009) *New England J. Medicine*. 361: 302-303.
2. Garcia-Gallo M., Renart J., Diaz-Guerra M. (2001) *Biochem J*. 356: 539-547.
3. Atlason P.T., Garside M.L., Meddows E., Whiting P., McIlhinney R.A.J. (2007) *J Biol Chem*. 282(35): 25299-25307.

## Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GluN1/NR1 Monoclonal Antibody, Clone S308-48 (SMC-410). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GluN1/NR1 Monoclonal Antibody (SMC-410) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cell Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GluN1/NR1 Antibody (D) Composite.



Western Blot analysis of Rat brain membrane lysate showing detection of NMDAR1 NMDA receptor protein using Mouse Anti-NMDAR1 NMDA receptor Monoclonal Antibody, Clone S308-48 (SMC-410). Primary Antibody: Mouse Anti-NMDAR1 NMDA receptor Monoclonal Antibody (SMC-410) at 1:1000.

## Product Citations (0)

Currently there are no citations for this product.

## Reviews

There are no reviews yet.