



## Product datasheet

# Anti-NMDAR2A antibody [N327A/38] - N-terminal ab174636

★☆☆☆☆ 1 Abreviews 2 Images

### Overview

<b>Product name</b>	Anti-NMDAR2A antibody [N327A/38] - N-terminal
<b>Description</b>	Mouse monoclonal [N327A/38] to NMDAR2A - N-terminal
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, IHC-Fr, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	<p>Fusion protein (His-tag) corresponding to Rat NMDAR2A aa 75-325 (N terminal). Sequence:</p> <p>NRTDPKSLITHVCDLMSGARIHGLVFGDDTDQEAVAQ MLDFISSQTFIPI LGIHGGASMI MADKDPTSTFFQFGASIQQQATVMLKIMQDYDWHVFS LVTTIFPGYRDFI SFIKTTVDNS FVGWDMQNVITLDTSFEDAKTQVQLKKIHSSVILLYCS KDEAVLILSEAR SLGLTGYDFF WVPSLVSGNTELPKEFPSGLISVSYYDDWDYSLEARV RDGLGILTTAAS SMLEKFSYIP EAKASCYQAE</p> <p>Database link: <a href="#">Q00959</a></p> <p style="text-align: right;">  <a href="#">Run BLAST with</a>                 <a href="#">Run BLAST with</a> </p>
<b>Epitope</b>	extracellular domain
<b>Positive control</b>	COS cells transiently transfected with GFP-tagged NMDAR2A lysate. ICC/IF: SK-N-BE cells.
<b>General notes</b>	The clone number has been updated from S327A-38 to N327A/38, both clone numbers name the same antibody clone.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40


Preservative: 0.09% Sodium azide  
Constituents: 49% PBS, 50% Glycerol

**Purity** Protein G purified  
**Clonality** Monoclonal  
**Clone number** N327A/38  
**Isotype** IgG2b

## Applications

Our [Abpromise guarantee](#) covers the use of **ab174636** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
ICC/IF		1/100.
WB		1/1000. Predicted molecular weight: 165 kDa.

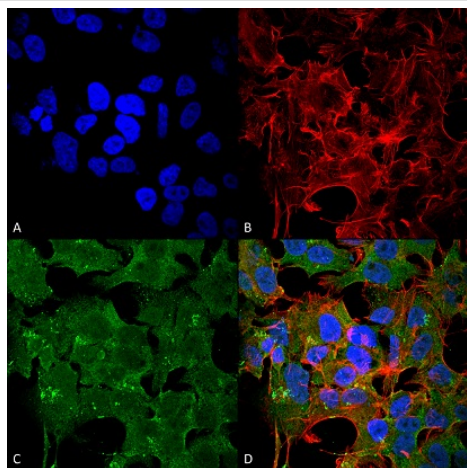
## Target

**Function** NMDA receptor subtype of glutamate-gated ion channels possesses high calcium permeability and voltage-dependent sensitivity to magnesium. Activation requires binding of agonist to both types of subunits.

**Sequence similarities** Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. NR2A/GRIN2A subfamily.

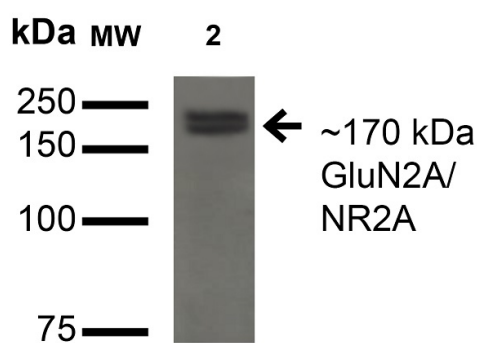
**Cellular localization** Cell membrane. Cell junction > synapse > postsynaptic cell membrane.

## Images



Immunocytochemistry/ Immunofluorescence - Anti-NMDAR2A antibody [N327A/38] - N-terminal (ab174636)

4% formaldehyde-fixed SK-N-BE cells labeling NMDAR2A using ab174636 at 1/100 dilution in ICC/IF. Cells were fixed for 15 minutes at room temperature and incubated with primary antibody for 1 hour at room temperature. Secondary antibody was a goat anti-mouse ATTO 488 (green) at 1/200 dilution incubated for 1 hour at room temperature. Counter stained with Phalloidin Texas Red F-actin stain and DAPI (blue) nuclear stain.



Western blot - Anti-NMDAR2A antibody [N327A/38] - N-terminal (ab174636)

Anti-NMDAR2A antibody [N327A/38] - N-terminal (ab174636) at 1/200 dilution + Monkey COS cells transfected with GFP-tagged NMDAR2A at 15 µg with Monkey COS cells transfected with GFP-tagged NR2A

**Secondary**

Goat Anti-Mouse IgG: HRP for 1 hour RT. at 1/1000 dilution

**Predicted band size:** 165 kDa

**Observed band size:** ~170 kDa

[why is the actual band size different from the predicted?](#)

Color Development: ECL solution for 6 min in RT.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise,

please visit <https://www.abcam.com/abpromise> or contact our technical team.

## **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors