

Product datasheet

Anti-NMDAR2A antibody [EPR19694] ab183939

Recombinant RabMAb

[1 References](#) [3 Images](#)

Overview

Product name	Anti-NMDAR2A antibody [EPR19694]
Description	Rabbit monoclonal [EPR19694] to NMDAR2A
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: ICC
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse and rat hippocampus and brain lysates; His-tagged mouse NMDAR2A recombinant protein fragment (aa aa22-326).
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19694

IsotypeIgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab183939 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
WB		1/1000. Detects a band of approximately 165 kDa (predicted molecular weight: 165 kDa).

Application notes Is unsuitable for ICC.

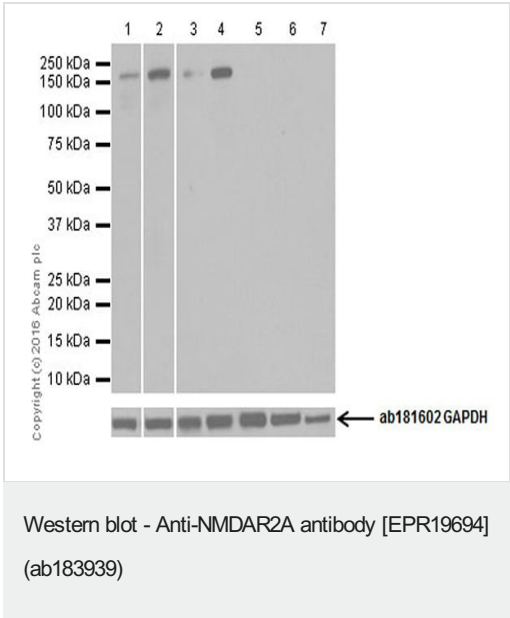
Target

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



All lanes : Anti-NMDAR2A antibody [EPR19694] (ab183939) at 1/1000 dilution

- Lane 1** : Mouse hippocampus lysate
- Lane 2** : Rat hippocampus lysate
- Lane 3** : Mouse brain lysate
- Lane 4** : Rat brain lysate
- Lane 5** : Mouse heart lysate
- Lane 6** : Rat kidney lysate
- Lane 7** : Mouse spleen lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

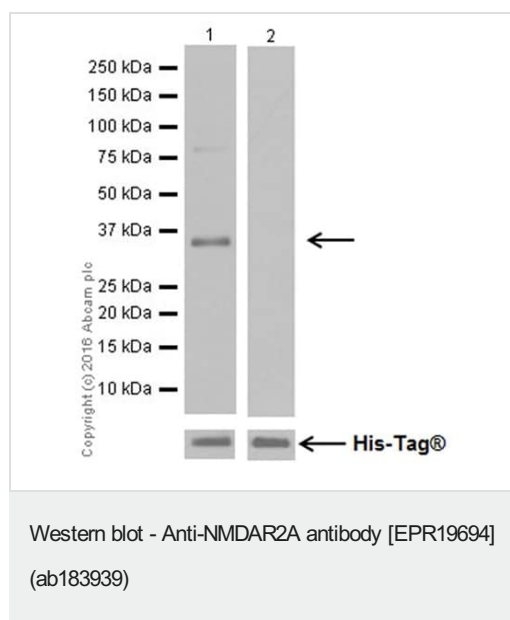
Predicted band size: 165 kDa

Observed band size: 165 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1: 3 minutes; Lane 2: 30 seconds; Lane 3, 4, 5, 6 and 7: 3 minutes.

NMDAR2A has been previously documented to be specifically expressed in neuron cells. (PMID: 12127670).



All lanes : Anti-NMDAR2A antibody [EPR19694] (ab183939) at 1/5000 dilution

Lane 1 : His-tagged mouse NMDAR2A recombinant protein fragment (aa 22-326)

Lane 2 : His-tagged mouse NMDAR2B recombinant protein fragment (aa 27-322)

Lysates/proteins at 0.01 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 165 kDa

Observed band size: 165 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1: 1 seconds; Lane 2: 3 minutes.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-NMDAR2A antibody [EPR19694] (ab183939)

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