

## Product datasheet

# Anti-GluN2C antibody [EPR19046] ab192831

Recombinant RabMAb

3 Images

### Overview

<b>Product name</b>	Anti-GluN2C antibody [EPR19046]
<b>Description</b>	Rabbit monoclonal [EPR19046] to GluN2C
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> IHC-Fr or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Mouse and rat cerebellum lysates; Mouse GluN2C fragment recombinant protein.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### 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: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR19046
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab192831 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 135 kDa (predicted molecular weight: 135 kDa).

### Application notes

Is unsuitable for IHC-Fr or IHC-P.

## Target

### Function

NMDA receptor subtype of glutamate-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Mediated by glycine.

### Tissue specificity

Mainly expressed in brain with predominant expression in the cerebellum, also present in the hippocampus, amygdala, caudate nucleus, corpus callosum, subthalamic nuclei and thalamus. Detected in the heart, skeletal muscle and pancreas.

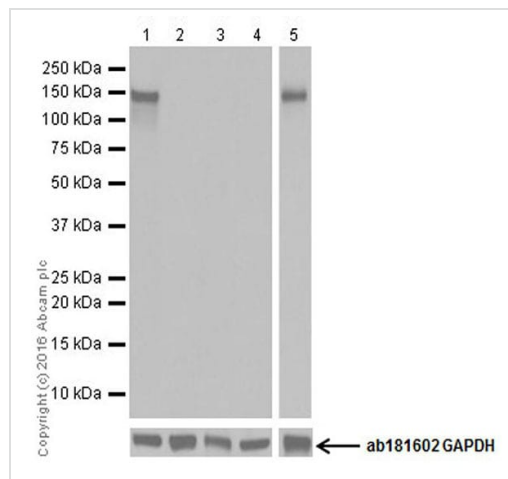
### Sequence similarities

Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. NR2C/GRIN2C subfamily.

### Cellular localization

Cell membrane. Cell junction, synapse, postsynaptic cell membrane.

## Images



Western blot - Anti-GluN2C antibody [EPR19046] (ab192831)

**All lanes** : Anti-GluN2C antibody [EPR19046] (ab192831) at 1/1000 dilution

**Lane 1** : Mouse cerebellum lysate

**Lane 2** : Mouse heart lysate

**Lane 3** : C6 (Rat glial tumor cell line) whole cell lysate

**Lane 4** : Rat liver lysate

**Lane 5** : Rat cerebellum lysate

Lysates/proteins at 20 µg per lane.

### Secondary

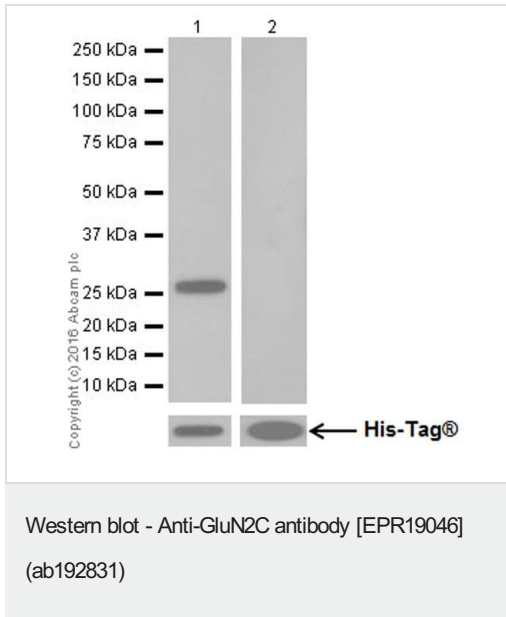
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Predicted band size:** 135 kDa

**Observed band size:** 135 kDa

Blocking/Dilution buffer: 5% NFD/MTBST.

Exposure time: Lane 1,2,3 and 4: 1 minute; Lane 5: 15 seconds.



**All lanes** : Anti-GluN2C antibody [EPR19046] (ab192831) at 1/1000 dilution

**Lane 1** : Mouse GluN2C fragment recombinant protein

**Lane 2** : Mouse NMDAR2D fragment recombinant protein

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:** 135 kDa

Blocking/Dilution buffer: 5% NFD/MTBST.

Exposure time: Lane 1: 1 second; Lane 2: 3 minutes.

Mouse GluN2C fragment recombinant protein contains aa300-499 with a His-Tag®. NMDAR2D fragment recombinant protein contains aa328-526 with a His-Tag®. These two recombinant proteins were made in-house. NMDAR2A and NMDAR2B were not tested, as bands of their size (180 kD) were not detected in tissue lysates.

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-GluN2C antibody [EPR19046] (ab192831)

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

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