abcam

Product datasheet

Anti-NMDAR1 antibody [EPR2480Y] - Neuronal Marker ab68144

重组 RabMAb

5 References 3 图像

概述

产品名称	Anti-NMDAR1抗体[EPR2480Y] - Neuronal Marker
描述	兔单克隆抗体[EPR2480Y] to NMDAR1 - Neuronal Marker
宿主	Rabbit
特异性	This antibody was raised against a phosphorylated peptide however the antibody recognises phosphorylated and non-phosphorylated protein.
经测试应用	**适用于:** WB **不适用于:** Flow Cyt or ICC/IF
种属反应性	**与反应:** Mouse, Human **预测可用于:** Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Mouse brain lysate; human brain tissue
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Tissue culture supernatant

克隆	单克隆
克隆编号	EPR2480Y
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab68144于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

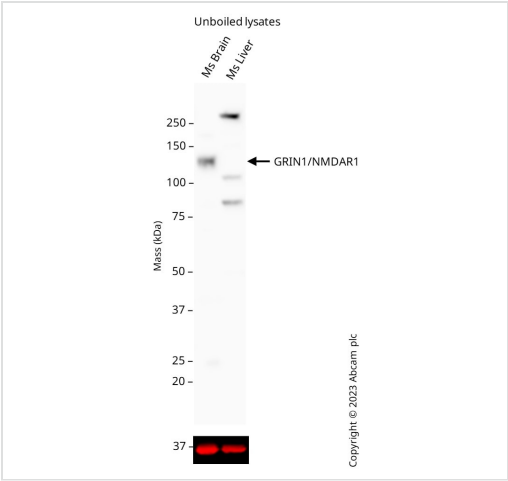
应用	Ab评论	说明
WB		1/1000 - 1/2000. Detects a band of approximately 105 kDa (predicted molecular weight: 105 kDa).

应用说明 Is unsuitable for Flow Cyt or ICC/IF.

靶标

功能	NMDA receptor subtype of glutamate-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Mediated by glycine. This protein plays a key role in synaptic plasticity, synaptogenesis, excitotoxicity, memory acquisition and learning. It mediates neuronal functions in glutamate neurotransmission. Is involved in the cell surface targeting of NMDA receptors.
序列相似性	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. NR1/GRIN1 subfamily.
翻译后修饰	NMDA is probably regulated by C-terminal phosphorylation of an isoform of NR1 by PKC. Dephosphorylated on Ser-897 probably by protein phosphatase 2A (PPP2CB). Its phosphorylated state is influenced by the formation of the NMDAR-PPP2CB complex and the NMDAR channel activity.
细胞定位	Cell membrane. Cell junction > synapse > postsynaptic cell membrane. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Enriched in post-synaptic plasma membrane and post-synaptic densities.

图片



Western blot - Anti-NMDAR1 antibody [EPR2480Y] - Neuronal Marker (ab68144)

All lanes : Anti-NMDAR1 antibody [EPR2480Y] - Neuronal Marker (ab68144) at 1/1000 dilution

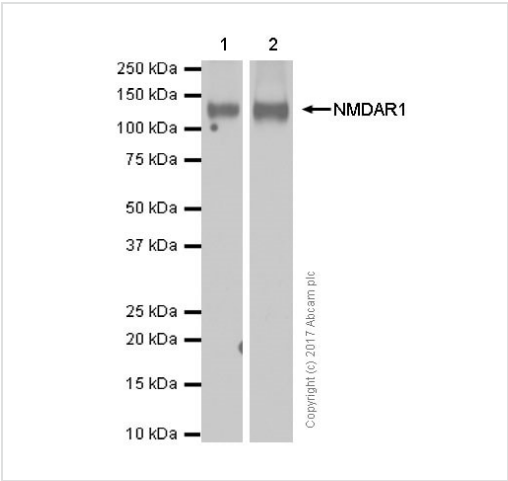
Lane 1 : Mouse Brain (unboiled) cell lysate
Lane 2 : Mouse Liver (unboiled) cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 105 kDa
Observed band size: 120 kDa

Anti-GRIN1 antibody [EPR2480Y] (ab68144) staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab68144 was shown to bind specifically to GRIN1. First, unboiled samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were HRP conjugated Goat anti-Rabbit (H+L) and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-NMDAR1 antibody [EPR2480Y] - Neuronal Marker (ab68144)

All lanes : Anti-NMDAR1 antibody [EPR2480Y] - Neuronal Marker (ab68144) at 1/1000 dilution

Lane 1 : Human fetal brain cell lysate
Lane 2 : Human forebrain cell lysate

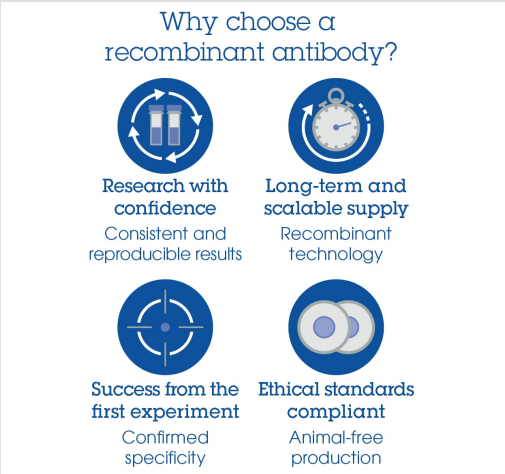
Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 105 kDa
Observed band size: 120 kDa

Exposure time: 30 seconds

Blocking/diluting buffer: 5% NFDM/TBST



Anti-NMDAR1 antibody [EPR2480Y] - Neuronal Marker (ab68144)

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.cn/abpromise** or contact our technical team.

Terms and conditions

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