


Anti-NMDAR1 antibody - Neuronal Marker ab17345

★★★★☆ [5 Abreviews](#) [41 References](#) [画像数 3](#)

製品の概要

製品名	Anti-NMDAR1 antibody - Neuronal Marker
製品の詳細	Rabbit polyclonal to NMDAR1
由来種	Rabbit
特異性	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help. You may also be interested in our alternative recombinant antibody, ab274377 .
アプリケーション	適用あり: IHC (PFA fixed), WB
種交差性	交差種: Rat, Human 交差が予測される動物種: Mouse 
免疫原	Synthetic peptide corresponding to Rat NMDAR1 aa 1-100 (N terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab17568)
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising

agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

精製度 Immunogen affinity purified
ポリ/モノ ポリクローナル
アイソタイプ IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab17345の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC (PFA fixed)		Use at an assay dependent concentration.
WB		Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 110 kDa (predicted molecular weight: 105 kDa).

ターゲット情報

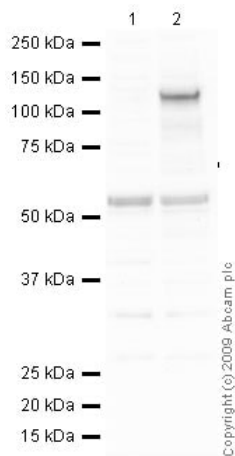
機能 NMDA receptor subtype of glutamate-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Mediated by glycine. This protein plays a key role in synaptic plasticity, synaptogenesis, excitotoxicity, memory acquisition and learning. It mediates neuronal functions in glutamate neurotransmission. Is involved in the cell surface targeting of NMDA receptors.

配列類似性 Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. NR1/GRIN1 subfamily.

翻訳後修飾 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.

細胞内局在 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.

画像



Western blot - Anti-NMDAR1 antibody - Neuronal Marker (ab17345)

All lanes : Anti-NMDAR1 antibody - Neuronal Marker (ab17345) at 2 µg/ml

Lane 1 : HEK293 Whole Cell Lysate Transfected with SHAM

Lane 2 : HEK293 Whole Cell Lysate Transfected with NR1-1a/NR2A

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

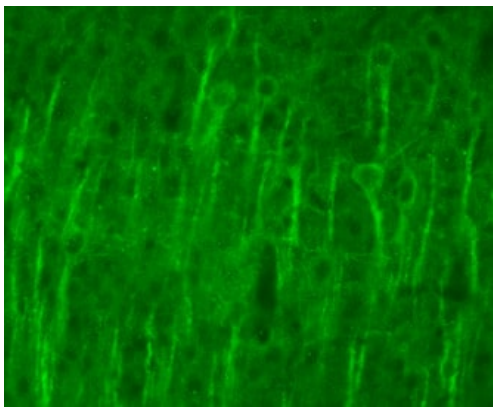
Predicted band size: 105 kDa

Observed band size: 130 kDa

Additional bands at: 54 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds

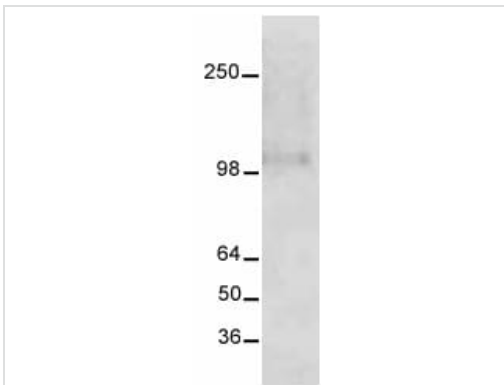
NMDAR1 has a predicted molecular weight of 105kDa; however it has a number of potential glycosylation and phosphorylation sites which may affect the migration of the protein (SwissProt data). In addition, a band at 37kDa has been observed (data not shown).



Immunohistochemistry (PFA fixed) - Anti-NMDAR1 antibody - Neuronal Marker (ab17345)

This image is courtesy of Sophie Pezet, Univ London Kings Coll, United Kingdom

ab17345 Rabbit polyclonal to NMDAR1 immunofluorescent staining in the rat brain cortex. Primary antibody ab17345 was incubated at room temperature overnight at 0.5µg/ml. Preincubation with the immunizing peptide ([ab17568](#)) resulted in complete blocking of the primary antibody staining. Anti rabbit alexa fluor 488 secondary antibody was used at 1/1000 (incubated for 2h at room temperature). Protocol details: rat tissue was intracardially perfusion fixed with 4% PFA followed by an overnight post fixation in the same fixative, cryoprotected in 20% sucrose and frozen in OCT. As expected NMDAR1 staining is observed in the soma, axon and dendrites of neurons.



Western blot - Anti-NMDAR1 antibody - Neuronal Marker (ab17345)

Anti-NMDAR1 antibody - Neuronal Marker (ab17345) at 2 µg/ml + HEK293 cell lysate co-transfected with NR1 and NR2A recombinant protein at 50 µg

Predicted band size: 105 kDa

Observed band size: ~110 kDa

HEK293 cells were co-transfected with NMDAR1 (expected MW ~ 105kDa) and NMDAR2A (expected MW ~ 180kDa). ab17345 NMDAR1 antibody specifically recognises NMDAR1 protein and does not recognise NMDAR2A protein. ab17345 was incubated overnight at 4°C at 2µg/ml.

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