

Product datasheet

Anti-NMDAR2B (phospho S1303) antibody [EP1858Y] ab81271

Recombinant RabMAb

★★★★★ 1 Abreviews 20 References 5 Images

Overview

Product name	Anti-NMDAR2B (phospho S1303) antibody [EP1858Y]
Description	Rabbit monoclonal [EP1858Y] to NMDAR2B (phospho S1303)
Host species	Rabbit
Specificity	ab81271 detects NMDAR2B when phosphorylated at serine 1303
Tested applications	Suitable for: Dot blot, WB Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	A phospho specific peptide corresponding to residues surrounding serine 1303 of human NMDAR2B.
Positive control	WB: Human, mouse and rat brain tissue lysates.
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> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in</p>

our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1858Y
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab81271** in the following tested applications.

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

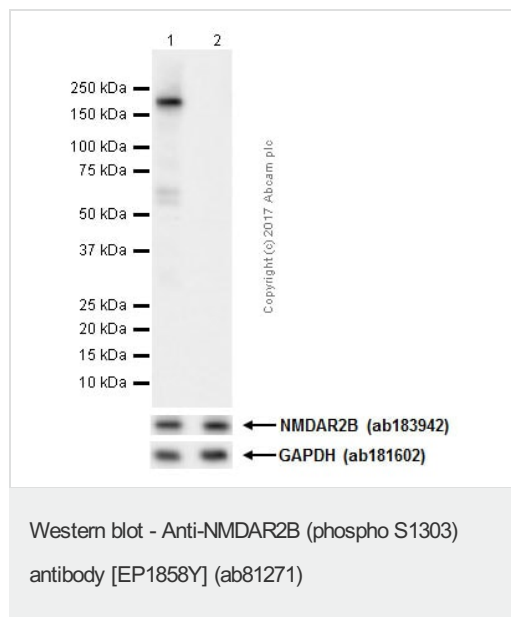
Application	Abreviews	Notes
Dot blot		1/1000.
WB	★★★★★	1/1000 - 1/5000. Predicted molecular weight: 166 kDa.

Application notes Is unsuitable for IHC-P or IP.

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	Primarily found in the fronto-parieto-temporal cortex and hippocampus pyramidal cells, lower expression in the basal ganglia.
Sequence similarities	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. NR2B/GRIN2B subfamily.

Images



All lanes : Anti-NMDAR2B (phospho S1303) antibody [EP1858Y] (ab81271) at 1/5000 dilution

Lane 1 : Rat brain tissue lysate

Lane 2 : Rat brain tissue lysate. The membrane was incubated with alkaline phosphatase.

Lysates/proteins at 10 µg per lane.

Secondary

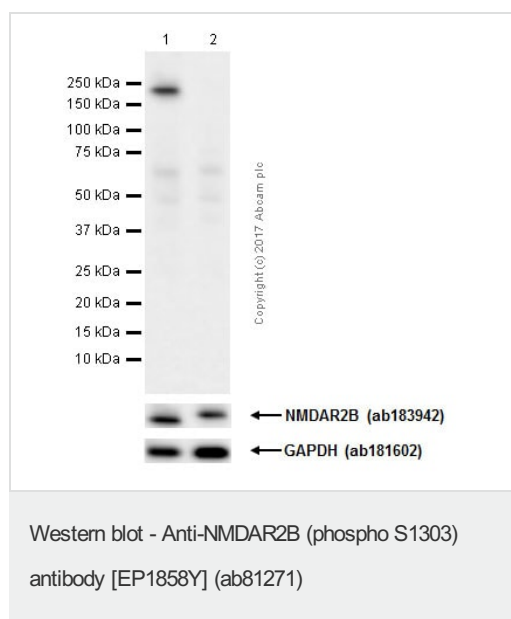
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 166 kDa

Observed band size: 180 kDa

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

Blocking and dilution buffer: 5% NFDM/TBST.



All lanes : Anti-NMDAR2B (phospho S1303) antibody [EP1858Y] (ab81271) at 1/5000 dilution

Lane 1 : Human brain tissue lysate

Lane 2 : Human brain tissue lysate. The membrane was incubated with alkaline phosphatase.

Lysates/proteins at 10 µg per lane.

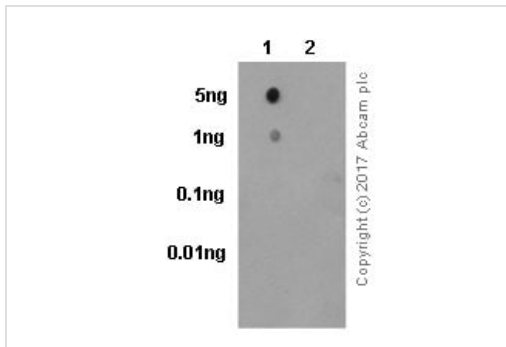
Secondary

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

Predicted band size: 166 kDa

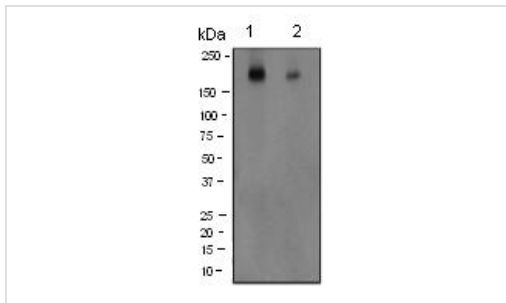
Observed band size: 180 kDa [why is the actual band size different from the predicted?](#)

Blocking and dilution buffer: 5% NFDm/TBST.



Dot Blot - Anti-NMDAR2B (phospho S1303) antibody [EP1858Y] (ab81271)

Dot blot analysis of NMDAR2B (phospho S1303) phospho peptide (Lane 1) and NMDAR2B non-phospho peptide (Lane 2) labelling NMDAR2B (phospho S1303) with ab81271 at a dilution of 1/1000. A Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) was used as the secondary antibody at a dilution of 1/20,000 dilution. Blocking buffer: 5% NFDm/TBST. Dilution buffer: 5% NFDm /TBST.



Western blot - Anti-NMDAR2B (phospho S1303) antibody [EP1858Y] (ab81271)

All lanes : Anti-NMDAR2B (phospho S1303) antibody [EP1858Y] (ab81271) at 1/5000 dilution

Lane 1 : Mouse brain lysates (untreated)

Lane 2 : Mouse brain lysates (treated with AP)

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP labelled IgG at 1/2000 dilution

Predicted band size: 166 kDa

Observed band size: 180 kDa [why is the actual band size different from the predicted?](#)

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-NMDAR2B (phospho S1303) antibody
[EP1858Y] (ab81271)

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

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