


Product datasheet

Anti-NMDAR2B antibody ab71178

1 Abreviews 2 Images

Overview

Product name	Anti-NMDAR2B antibody
Description	Rabbit polyclonal to NMDAR2B
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Dog, Xenopus laevis 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1350 - 1450 of Rat NMDAR2B. Read Abcam's proprietary immunogen policy (Peptide available as ab71177 .)
Positive control	This antibody gave a positive signal in the following tissue lysates: Brain (Human), Brain (Mouse), Brain (Rat), Hippocampus (Mouse), Rat Hippocampus

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab71178** 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		Use a concentration of 1 µg/ml. Detects a band of approximately 180 kDa (predicted molecular weight: 166 kDa).

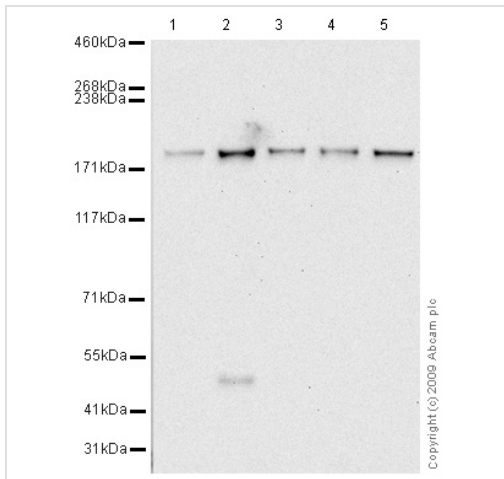
Application	Abreviews	Notes
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IP Use at an assay dependent concentration.

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.
Cellular localization	Cell membrane. Cell junction > synapse > postsynaptic cell membrane.

Images



Western blot - NMDAR2B antibody (ab71178)

All lanes : Anti-NMDAR2B antibody (ab71178) at 1 µg/ml

Lane 1 : Human brain tissue lysate - total protein (ab29466)

Lane 2 : Brain (Mouse) Tissue Lysate

Lane 3 : Brain (Rat) Tissue Lysate

Lane 4 : Hippocampus (Mouse) Tissue Lysate

Lane 5 : Rat Hippocampus Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

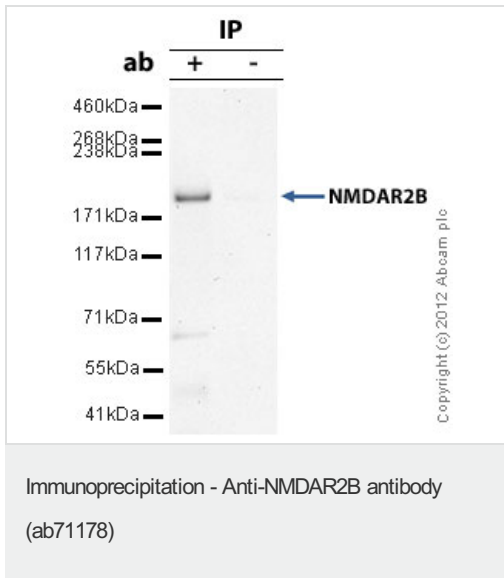
Performed under reducing conditions.

Predicted band size: 166 kDa

Observed band size: 180 kDa

Exposure time: 3 minutes

NMDAR2B contains a number of potential phosphorylation and glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.



NMDAR2B was immunoprecipitated using 0.5mg Mouse Brain whole tissue lysate, 5µg of Rabbit polyclonal to NMDAR2B and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Mouse Brain whole tissue lysate lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation. Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab71178.

Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) (ab99697).

Band: 180kDa: NMDAR2B.

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