

## Basic Information

<b>Product Name</b>	Anti-NMDAR2B/GRIN2B Antibody
<b>Gene Name</b>	GRIN2B
<b>Source</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Species Reactivity</b>	mouse, rat
<b>Tested Application</b>	WB
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.
<b>Immunogen</b>	E.coli-derived human NMDAR2B recombinant protein (Position: N1076-D1332). Human NMDAR2B shares 97.7% and 97.3% amino acid (aa) sequence identity with mouse and rat NMDAR2B, respectively.
<b>Concentration</b>	500 ug/ml
<b>Purification</b>	Immunogen affinity purified.
<b>Observed MW</b>	166 kDa
<b>Dilution Ratios</b>	Western blot (WB):1:500-2000

## Storage

12 months from date of receipt, -20°C as supplied.

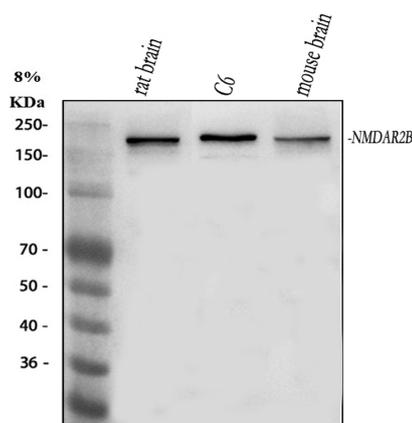
## Background Information

The N-methyl-D-aspartate receptor 2B (NMDAR2B), also names as GRIN2B. The sequence of the predicted 1,484-amino acid human protein is 98% and 96% identical to the sequences of the rat and mouse Nmdar2b proteins, respectively. Nmdar2B gene is located on mouse chromosome 6 between Rho and Ly49 centromerically and Glb telomerically. Mapping of the human NMDAR2B receptor subunit gene (GRIN2B) to chromosome 12p12 overexpression of NMDA receptor 2B (NR2B) in the forebrains of transgenic mice leads to enhanced activation of NMDA receptors, facilitating synaptic potentiation in response to stimulation at 10-100 Hz.

## Reference

Anti-NMDAR2B/GRIN2B Antibody被引用在6文献中。

## Selected Validation Data



Western blot analysis of NMDAR2B/GRIN2B using anti-NMDAR2B/GRIN2B antibody (PB0414). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: rat C6 whole cell lysates,

Lane 3: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-NMDAR2B/GRIN2B antigen affinity purified polyclonal antibody (PB0414) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for NMDAR2B/GRIN2B at approximately 180-190 kDa. The expected band size for NMDAR2B/GRIN2B is at 166 kDa.