

# Product Datasheet

## NMDAR2B [p Tyr1472] Antibody - Azide Free NB300-182

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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[technical@novusbio.com](mailto:technical@novusbio.com)

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**NB300-182**

NMDAR2B [p Tyr1472] Antibody - Azide Free

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	10 mM HEPES (pH 7.5), 0.15 M NaCl, 0.1 mg/mL BSA, 50% Glycerol
<b>Target Molecular Weight</b>	180 kDa

**Product Description**

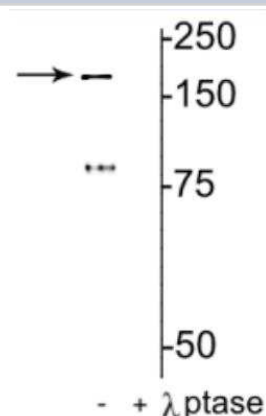
<b>Host</b>	Rabbit
<b>Gene ID</b>	2904
<b>Gene Symbol</b>	GRIN2B
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Human reactivity reported in scientific literature (PMID: 28273943).
<b>Specificity/Sensitivity</b>	Specific for endogenous levels of the ~180 kDa NMDAR2B protein phosphorylated at Tyr1472. Immunolabeling is completely eliminated by treatment with lambda-phosphatase.
<b>Immunogen</b>	Synthetic phospho-peptide corresponding to amino acid residues surrounding Tyr1472 conjugated to KLH. Accession # Q00960

**Product Application Details**

<b>Applications</b>	Western Blot, Simple Western
<b>Recommended Dilutions</b>	Western Blot 1:1000, Simple Western
<b>Application Notes</b>	NOTE: Immunolabeling is blocked by the phosphopeptide but not by the dephosphopeptide. The antibody also labels bands at ~65kDa and ~115kDa. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in mouse brain lysates; separated by size; antibody dilution of 1:10.

**Images**

Western Blot: NMDAR2B [p Tyr1472] Antibody [NB300-182] - Rat hippocampal lysate showing specific immunolabeling of the ~180 kDa NR2B subunit of the NMDAR phosphorylated at Tyr1472 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by lysate treatment with lambda phosphatase (400 units/100uL lysate for 30 min).



## Publications

Zhu JM, Li KX, Cao SX et al. Increased NRG1-ErbB4 signaling in human symptomatic epilepsy. Sci Rep. 2017-12-01 [PMID: 28273943] (WB, Human)

Hallett PJ, Spoelgen R, Hyman BT et al. Dopamine D1 activation potentiates striatal NMDA receptors by tyrosine phosphorylation-dependent subunit trafficking. J Neurosci. 2006-04-26 [PMID: 16641250] (WB, Rat)

Details:

WB: primary rat embryonic neuronal cells, Fig 7D





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB300-182**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00002904-Q01-10ug	Recombinant Human NMDAR2B GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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