

Nur für Forschungszwecke

# NMDAR2B/GRIN2B Polyklonaler Antikörper



Katalog-Nr.: 21920-1-AP

Vorgestelltes Produkt

64 Publikationen

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 21920-1-AP	<b>GenBank-Zugangsnummer:</b> BC113620	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 150ul, Konzentration: 550 µg/ml von Nanodrop;	<b>GeneID (NCBI):</b> 2904	<b>Empfohlene Verdünnungen:</b> WB 1:500-1:4000 IP 0.5-4.0 µg für IP und 1:1000-1:4000 für WB
<b>Wirt:</b> Kaninchen	<b>Vollständiger Name:</b> glutamate receptor, ionotropic, N-methyl D-aspartate 2B	<b>IHC 1:50-1:500</b> <b>IF 1:10-1:100</b>
<b>Isotyp:</b> IgG	<b>Berechnete Masse:</b> 1484 aa, 166 kDa	
<b>Immunogen Katalognummer:</b> AG16318	<b>Beobachtete Masse:</b> 166 kDa	

## Anwendungen

**Geprüfte Anwendungen:**  
FC, IF, IHC, IP, WB, ELISA

**In Publikationen genannte Anwendungen:**  
CoIP, IF, IHC, IP, WB

**Getestete Reaktivität:**  
Human, Maus, Ratte

**Zitierte Arten:**  
Human, Maus, Ratte, Zebrafink

**Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

**Positivkontrollen:**

**WB:** Maushirngewebe, humanes Hirngewebe, Rattenhirngewebe

**IP:** Maushirngewebe,

**IHC:** Maushirngewebe, humanes Hirngewebe

**IF:** SH-SY5Y-Zellen,

## Hintergrundinformationen

GRIN2B (also known as GluN2B or NMDAR2B) is a member of the N-methyl-D-aspartate (NMDA) receptor family within the ionotropic glutamate receptor superfamily. NMDA receptors are widely expressed in the central nervous system and play a major role in excitatory synaptic transmission and plasticity (PMID: 23223336). NMDA receptors large multi-subunit complexes arranged into heteromeric assemblies composed of four homologous subunits within a repertoire of over 10 different subunits: eight GluN1 isoforms, four GluN2 subunits (A-D) and two GluN3 subunits (A and B) (PMID: 21395862). Naturally occurring mutations within GRIN2B gene are associated with neurodevelopmental disorders including autism spectrum disorder, attention deficit hyperactivity disorder, epilepsy, and schizophrenia.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Pengcheng Ma	36179027	Sci Adv	WB
Qingyang Zhang	34551807	Mol Neurodegener	WB
Xin Peng	34549339	J Mol Neurosci	WB

## Lagerung

**Lagerungsbedingungen:**

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

**Lagerungspuffer:**

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

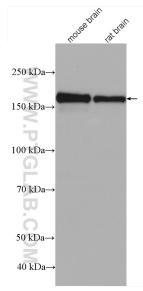
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

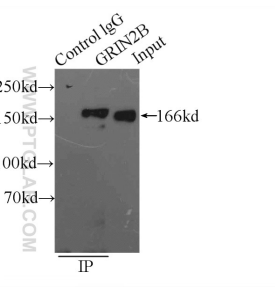
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

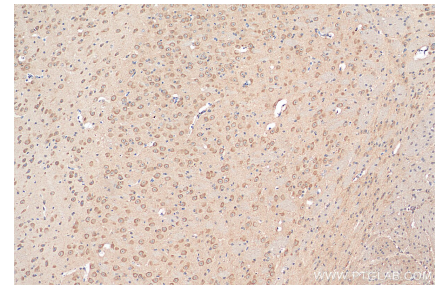
## Ausgewählte Validierungsdaten



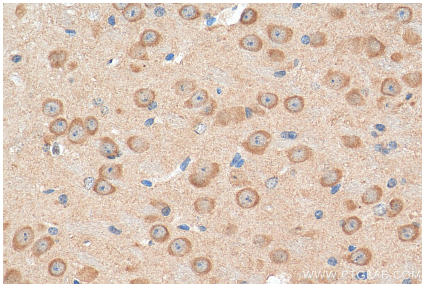
mouse brain tissue were subjected to SDS PAGE followed by western blot with 21920-1-AP (NMDAR2B/GRIN2B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



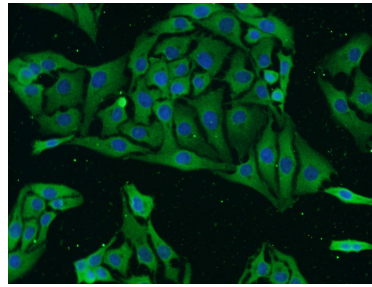
IP Result of anti-NMDAR2B/GRIN2B (IP:21920-1-AP, 3ug; Detection:21920-1-AP 1:2000) with mouse brain tissue lysate 6000ug.



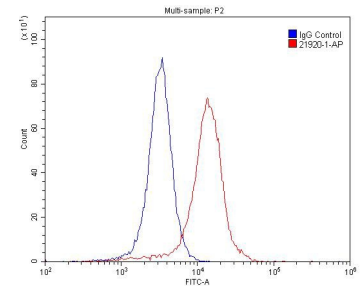
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21920-1-AP (NMDAR2B/GRIN2B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21920-1-AP (NMDAR2B/GRIN2B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of SH-SY5Y cells using 21920-1-AP (NMDAR2B/GRIN2B antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> SH-SY5Y cells were stained with 0.2ug NMDAR2B/GRIN2B antibody (21920-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.