

Basic Information

Product Name	Anti-NMDAR2B/GRIN2B Antibody	
Gene Name	GRIN2B	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, IP, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived human NMDAR2B/GRIN2B recombinant protein (Position: F1132-I1480).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	180 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	ImmunoPrecipitation (IP):	1:50
	Flow Cytometry (FCM):	1-3 µg/1x10 ⁶ cells
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

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

Background Information

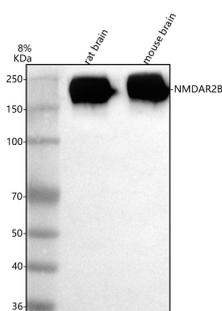
This gene encodes a member of the N-methyl-D-aspartate (NMDA) receptor family within the ionotropic glutamate receptor superfamily. The encoded protein is a subunit of the NMDA receptor ion channel which acts as an agonist binding site for glutamate. The NMDA receptors mediate a slow calcium-permeable component of excitatory synaptic transmission in the central nervous system. The NMDA receptors are heterotetramers of seven genetically encoded, differentially expressed subunits including NR1 (GRIN1), NR2 (GRIN2A, GRIN2B, GRIN2C, or GRIN2D) and NR3 (GRIN3A

or GRIN3B). The early expression of this gene in development suggests a role in brain development, circuit formation, synaptic plasticity, and cellular migration and differentiation. Naturally occurring mutations within this gene are associated with neurodevelopmental disorders including autism spectrum disorder, attention deficit hyperactivity disorder, epilepsy, and schizophrenia.

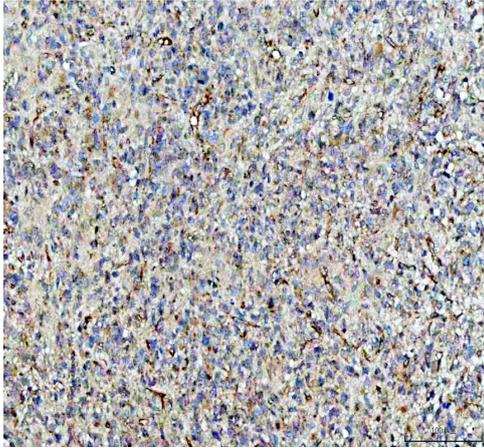
Reference

Anti-NMDAR2B/GRIN2B Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of NMDAR2B/GRIN2B using anti-NMDAR2B/GRIN2B antibody (A01883-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: 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 (A01883-2) 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 kDa. The expected band size for NMDAR2B/GRIN2B is at 166 kDa.



IHC analysis of NMDAR2B/GRIN2B using anti-NMDAR2B/GRIN2B antibody (A01883-2).

NMDAR2B/GRIN2B was detected in a paraffin-embedded section of human glioma tissue. The tissue section was incubated with rabbit anti-NMDAR2B/GRIN2B Antibody (A01883-2) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.