

anti-Rat NMDA Receptor Antibody | anti-NMDA antibody

Anti-NMDA Receptor [17]

CATALOG # AAA72302	REACTIVITY Rat	APPLICATIONS Crystallography
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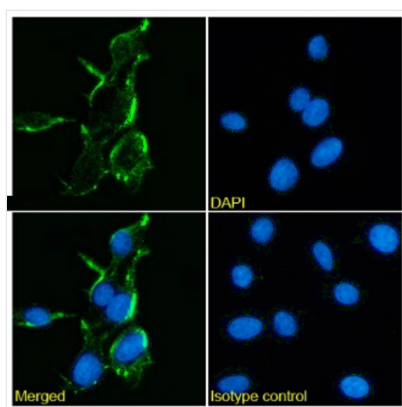
PRODUCT SYNONYMS

NMDA Receptor; Anti-NMDA Receptor [17]; NMDAR; NMDA-R; Glutamate receptor; anti-NMDA antibody

PRODUCT SPECIFICATIONS

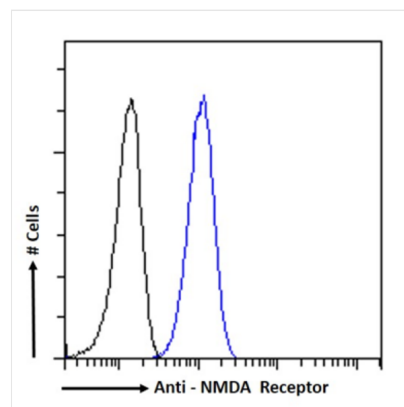
Reactivity	Rat
Isotype	Rabbit IgG kappa
Clone Number	17
Specificity	Reacts specifically with rat GluN2B ATD.
Purity/Purification	Purified. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-NMDA antibody	Crystallography
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of C6 cells with anti-NMDA Receptor 17. Immunofluorescence analysis of paraformaldehyde fixed C6 cells stained with the chimeric rabbit IgG version of 17 (AAA72302) at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72302, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



IF (Immunofluorescence)

Immunofluorescence staining of C6 cells with anti-NMDA Receptor (isotype control, black line) or the rabbit IgG version of 17 (AAA72302, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for anti-NMDA antibody	Monoclonal antibodies that bind rat GluN2B ATD were obtained by immunizing mice with the purified intact GluN1-GluN2B NMDA receptors. IgGs were purified from hybridoma cell culture supernatant by Protein-A Sepharose. Fab fragments have been prepared by papain proteolysis followed by re-chromatographing onto Protein-A Sepharose to remove Fc. Describes the lack of high resolution structures representing the active state of the NMDA receptor. This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG format, for improved compatibility with existing reagents, assays and techniques.
Product Categories/Family for anti-NMDA antibody	Crystallography; neurobiology
References	Tajima et al. Nature. 2016 May 2; 534(7605): 63-68

NCBI AND UNIPROT INFORMATION

NCBI GI #	6980984
NCBI GeneID	24410
NCBI Accession #	NP_036706.1
NCBI GenBank Nucleotide #	NM_012574.1
UniProt Accession #	Q00960; Q62684
Molecular Weight	166,071 Da
NCBI Official Full Name	glutamate receptor ionotropic, NMDA 2B
NCBI Official Synonym Full Names	glutamate receptor, ionotropic, N-methyl D-aspartate 2B
NCBI Official Symbol	Grin2b
NCBI Official Synonym Symbols	GluN2B
NCBI Protein Information	glutamate receptor ionotropic, NMDA 2B; N-methyl D-aspartate receptor subtype 2B; NMDAR2B; NR2B; glutamate [NMDA] receptor subunit epsilon-2; glutamate receptor, ionotropic, NMDA2B
UniProt Protein Name	Glutamate receptor ionotropic, NMDA 2B
UniProt Gene Name	Grin2b
UniProt Synonym Gene Names	GluN2B; NMDAR2B; NR2B
UniProt Entry Name	NMDE2_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.