

Anti-NMDAR1 Picoband Antibody

Catalog # ABO10215

Specification

Anti-NMDAR1 Picoband Antibody - Product Information

Application WB
Primary Accession O05586
Host Rabbit

Reactivity Human, Mouse, Rat

Clonality Polyclonal Lyophilized

Description

Rabbit IgG polyclonal antibody for NMDAR1 detection. Tested with WB in Human; Mouse; Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-NMDAR1 Picoband Antibody - Additional Information

Gene ID 2902

Other Names

Glutamate receptor ionotropic, NMDA 1, GluN1, Glutamate [NMDA] receptor subunit zeta-1, N-methyl-D-aspartate receptor subunit NR1, NMD-R1, GRIN1, NMDAR1

Application Details

Western blot, 0.1-0.5 µg/ml

Subcellular Localization

Cell membrane; Enriched in postsynaptic plasma membrane and postsynaptic densities.

Contents

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence of human NMDAR1 (FIEIAYKRHKDARRKQMQLAFAAVNVWRKNLQDRK).

Cross Reactivity

No cross reactivity with other proteins.

Storage At -20°C; for one year. After r°Constitution, at 4°C; for one month. It°Can also be

aliquotted and stored frozen at -20°C; for a longer time. Avoid repeated freezing and

thawing.

Anti-NMDAR1 Picoband Antibody - Protein Information



Name GRIN1

Synonyms NMDAR1

Function

Component of NMDA receptor complexes that function as heterotetrameric, ligand-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Channel activation requires binding of the neurotransmitter glutamate to the epsilon subunit, glycine binding to the zeta subunit, plus membrane depolarization to eliminate channel inhibition by Mg(2+) (PubMed:7685113, PubMed:28126851, PubMed:269197612691976128105280, PubMed:28105280). Sensitivity to glutamate and channel kinetics depend on the subunit composition (PubMed:26919761/a>).

Cellular Location

Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane. Postsynaptic density. Note=Enriched in postsynaptic plasma membrane and postsynaptic densities.

Anti-NMDAR1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-NMDAR1 Picoband Antibody - Images

Anti-NMDAR1 Picoband Antibody - Background

Glutamate [NMDA] receptor subunit zeta-1 is a protein that in humans is encoded by the GRIN1 gene. The protein encoded by this gene is a critical subunit of N-methyl-D-aspartate receptors, members of the glutamate receptor channel superfamily which are heteromeric protein complexes with multiple subunits arranged to form a ligand-gated ion channel. These subunits play a key role in the plasticity of synapses, which is believed to underlie memory and learning. Cell-specific factors are thought to control expression of different isoforms, possibly contributing to the functional diversity of the subunits. Alternatively spliced transcript variants have been described.