

Anti-NMDAR1 C1 antibody ab6484

1 References

概述

产品名称	Anti-NMDAR1 C1抗体
描述	兔多克隆抗体to NMDAR1 C1
宿主	Rabbit
特异性	Specific to NMDAR1 C1. The specificity is defined based on ab6484's specific immunolabelling of the 100 kDa band in Western blots of rat hippocampal homogenate at antibody dilution of 1:2000.
经测试应用	适用于: IHC-Fr, WB, IP
种属反应性	与反应: Rat
免疫原	Raised against the peptide representing the sequence of the C1 splice variant.
阳性对照	Rat hippocampal homogenate.
常规说明	

The ion channels activated by glutamate are divided into two classes. Those that are sensitive to N-methyl-D-aspartate (NMDA) are designated NMDA receptors (NMDAR) while those activated by kainate and α -amino-3-hydroxy-5-methyl-4-isoxalone propionic acid (AMPA) are known as kainate/AMPA receptors (K/AMPA). NMDA receptors are among the most studied receptors in neuroscience because they are involved in neuronal cell development and plasticity, a cellular correlate for learning. NMDA receptors are also implicated in several disorders of the central nervous system including epilepsy and ischemic neuronal cell death. NMDA receptors also appear to be a target for ethanol at physiological concentrations and therefore may play a significant role in alcoholism.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
纯度	Immunogen affinity purified
Primary antibody说明	The ion channels activated by glutamate are divided into two classes. Those that are sensitive to N-methyl-D-aspartate (NMDA) are designated NMDA receptors (NMDAR) while those activated by kainate and α -amino-3-hydroxy-5-methyl-4-isoxalone propionic acid (AMPA) are known as kainate/AMPA receptors (K/AMPA). NMDA receptors are among the most studied receptors in neuroscience because they are involved in neuronal cell development and plasticity, a cellular

correlate for learning. NMDA receptors are also implicated in several disorders of the central nervous system including epilepsy and ischemic neuronal cell death. NMDA receptors also appear to be a target for ethanol at physiological concentrations and therefore may play a significant role in alcoholism.

克隆 多克隆
同种型 IgG

应用

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“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-Fr		Use at an assay dependent concentration.
WB		1/2000. A band is seen at ~100 kDa representing the NMDAR1 C1 splice variant.
IP		Use at an assay dependent concentration.

靶标

功能 NMDA receptor subtype of glutamate-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Mediated by glycine. This protein plays a key role in synaptic plasticity, synaptogenesis, excitotoxicity, memory acquisition and learning. It mediates neuronal functions in glutamate neurotransmission. Is involved in the cell surface targeting of NMDA receptors.

疾病相关 Defects in GRIN1 are the cause of mental retardation autosomal dominant type 8 (MRD8) [MIM:614254]. Mental retardation is characterized by significantly below average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period.

序列相似性 Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. NR1/GRIN1 subfamily.

翻译后修饰 NMDA is probably regulated by C-terminal phosphorylation of an isoform of NR1 by PKC. Dephosphorylated on Ser-897 probably by protein phosphatase 2A (PPP2CB). Its phosphorylated state is influenced by the formation of the NMDAR-PPP2CB complex and the NMDAR channel activity.

细胞定位 Cell membrane. Cell junction > synapse > postsynaptic cell membrane. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Enriched in post-synaptic plasma membrane and post-synaptic densities.

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