abcam

Product datasheet

Recombinant Human NMDAR1 protein ab158584

1 Image

Overview

Product name	Recombinant Human NMDAR1 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human
Sequence	ACDPKIVNIGAVLSTRKHEQMFREAVNQANKRHGSWK IQLNATSVTHKPN AIQMALSVCEDLISSQVYAILVSHPPTPNDHFTPTPVSY TAGFYRIPVLG
Amino acids	21 to 120
Tags	GST tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab158584** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

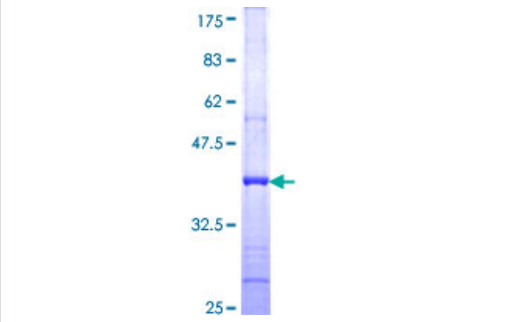
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	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.
Sequence similarities	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. NR1/GRIN1 subfamily.
Post-translational modifications	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.
Cellular localization	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.

Images



SDS-PAGE - Recombinant Human NMDAR1 protein (ab158584)

ab158584 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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