

For Research Use Only



CoraLite® Plus 488-conjugated NMDAR1/GRIN1 Monoclonal antibody

Catalog Number: **CL488-67717**

Basic Information

Catalog Number: CL488-67717	GenBank Accession Number: NM_000832	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 2902	CloneNo.: 1H2C2
Source: Mouse	Full Name: glutamate receptor, ionotropic, N-methyl D-aspartate 1	Recommended Dilutions: IF-P 1:50-1:500
Isotype: IgG1	Calculated MW: 105 kDa	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG26364	Observed MW: 105-120 kDa	

Applications

Tested Applications: IF-P	Positive Controls: IF-P: mouse brain tissue,
Species Specificity: human, mouse, rat, rabbit, chicken	

Background Information

GRIN1 encodes subunit 1 of the N-methyl-D-aspartate (NMDA) receptor, which is a heteromeric glutamate-gated calcium ion channel essential for synaptic function in the brain (PMID: 25864721, PMID: 25864721). NMDARs play important roles in normal brain development and function, such as synaptic plasticity, neural development, learning and memory (PMID: 20716669). NMDAR dysfunction has been associated with several neurological disorders including Parkinson, Alzheimer and Huntington diseases. Disrupted motor learning and long-term synaptic plasticity in mice lacking NMDAR1 in the striatum (PMID: 17015831).

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

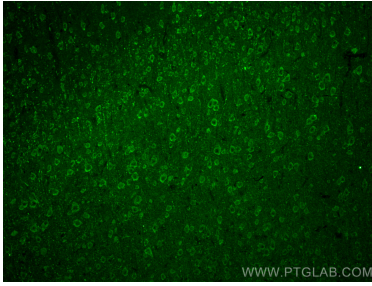
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using CoraLite® Plus 488 NMDAR1/GRIN1 antibody (CL488-67717, Clone: 1H2C2) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).