For Research Use Only

CoraLite® Plus 488-conjugated NMDAR1/GRIN1 Monoclonal antibody

Catalog Number:CL488-67717

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL488-67717

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG26364

GenBank Accession Number:
NM_000832

GeneID (NCBI):
2902

Full Name:
glutamate receptor, ionotropic, N-methyl D-aspartate 1

Calculated MW:
105 kDa

Observed MW:
105-120 kDa

Purification Method:
Protein G purification

CloneNo.:
1H2C2

Recommended Dilutions:
IF-P 1:50-1:500

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
IF-P

Species Specificity:
human, mouse, rat, rabbit, chicken

Positive Controls:

IF-P : mouse brain tissue,

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:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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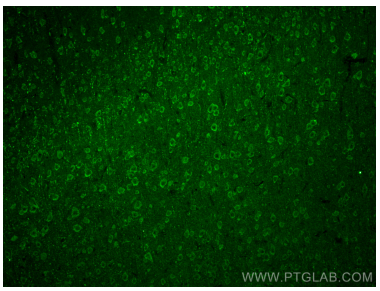
Selected Validation Data



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).