

For Research Use Only

# CoraLite® Plus 488-conjugated NMDAR1/GRIN1 Monoclonal antibody



Catalog Number: **CL488-67717**

## Basic Information

<b>Catalog Number:</b> CL488-67717	<b>GenBank Accession Number:</b> NM_000832	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2902	<b>CloneNo.:</b> 1H2C2
<b>Source:</b> Mouse	<b>Full Name:</b> glutamate receptor, ionotropic, N- methyl D-aspartate 1	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 105 kDa	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG26364	<b>Observed MW:</b> 105-120 kDa	

## 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:

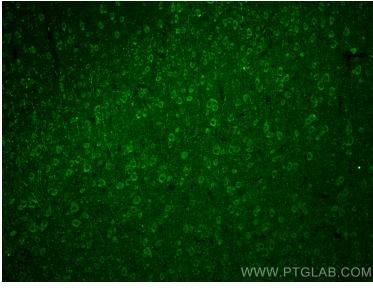
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## Selected Validation Data



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).