

For Research Use Only

# CoraLite® Plus 488-conjugated OLIG2 Monoclonal antibody



Catalog Number:CL488-66513

## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>CL488-66513                             | <b>GenBank Accession Number:</b><br>BC047511                           | <b>Purification Method:</b><br>Protein A purification                 |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by<br>Nanodrop; | <b>GeneID (NCBI):</b><br>10215   | <b>CloneNo.:</b><br>1E8C5   |
| <b>Source:</b><br>Mouse   | <b>Full Name:</b><br>oligodendrocyte lineage transcription<br>factor 2 | <b>Recommended Dilutions:</b><br>IF 1:50-1:500                        |
| <b>Isotype:</b><br>IgG2a  | <b>Calculated MW:</b><br>32 kDa  | <b>Excitation/Emission maxima<br/>wavelengths:</b><br>493 nm / 522 nm |
| <b>Immunogen Catalog Number:</b><br>AG18838                       | <b>Observed MW:</b><br>35-39 kDa                                       |   |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>IF                | <b>Positive Controls:</b><br>IF : mouse brain tissue, |
| <b>Species Specificity:</b><br>Human, mouse, rat |   |

## Background Information

OLIG2, also named as BHLHB1, BHLHE19, PRKCBP2 and RACK17, is required for oligodendrocyte and motor neuron specification in the spinal cord, as well as for the development of somatic motor neurons in the hindbrain. Cooperates with OLIG1, OLIG2 establish the pMN domain of the embryonic neural tube. Antagonist of V2 interneuron and of NIKX2-2-induced V3 interneuron development. OLIG2 is widely expressed in subsets of glia cells and progenitors, and it is strongly induced at different sites by both acute and chronic injury, albeit with different mechanisms. OLIG2 acts as a repressor of neurogenesis in cells reacting to brain injury. It may represent an effective approach towards evoking neuronal repair from parenchymal precursors.(PMID:19390819)

## Storage

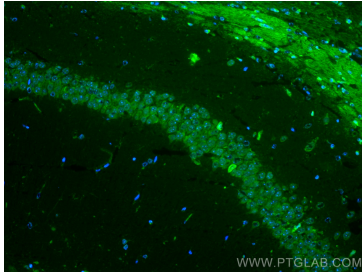
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

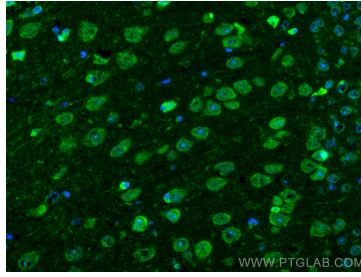
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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 mouse brain tissue using CoralLite® Plus 488 OIG2 antibody (CL488-66513, Clone: 1E8C5) at dilution of 1:200.



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