

For Research Use Only

CoraLite® Plus 488-conjugated OLIG2 Polyclonal antibody

Catalog Number: CL488-13999



Basic Information

Catalog Number:

CL488-13999

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5089

GenBank Accession Number:

BC047511

GeneID (NCBI):

10215

UNIPROT ID:

Q13516

Full Name:

oligodendrocyte lineage transcription factor 2

Calculated MW:

32 kDa

Observed MW:

32 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF-P: 1:50-1:500

FC (Intra): 0.80 µg per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima

wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF-P, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

IF-P: rat brain tissue,

FC (Intra): C6 cells,

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 NIK2-2-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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

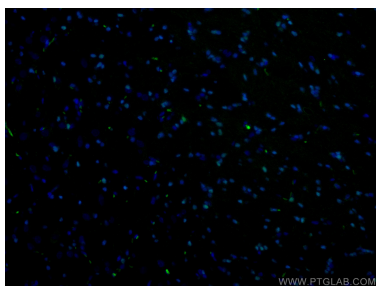
T: 4006900926

E: Proteintech-CN@ptglab.com

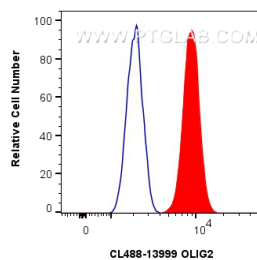
W: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using CoraLite® Plus 488 OLIG2 antibody (CL488-13999) at dilution of 1:200. DAPI (blue).



1X10⁶ C6 cells were intracellularly stained with 0.8 ug CoraLite® Plus 488 Anti-Human OLIG2 (CL488-13999) (red), or 0.8 ug CoraLite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000, Clone:) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).