For Research Use Only

OLIG2 (for WB only) Monoclonal antibody

Catalog Number:66513-1-Ig 19 Publications

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Basic Information

Catalog Number:
66513-1-Ig

Size:
1500 μg/ml

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG18838

GenBank Accession Number:
BC047511

GeneID (NCBI):
10215

UNIPROT ID:
Q13516

Full Name:
oligodendrocyte lineage transcription factor 2

Calculated MW:
32 kDa

Observed MW:
35-39 kDa

Purification Method:
Protein A purification

CloneNo.:
1E8C5

Recommended Dilutions:
WB 1:1000-1:6000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
Human

Cited Species:
human

Positive Controls:

WB : human brain tissue, human cerebellum tissue

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 NKX2-2-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)

Notable Publications

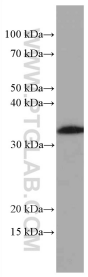
Author	Pubmed ID	Journal	Application
Hongtao Zhu	35814469	Front Oncol	WB
Xianli Du	36660824	Nucleic Acids Res	WB
Bingyu Ren	39020075	Commun Biol	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 66513-1-Ig (OLIG2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.