

OLIG2

Polyclonal ANTIBODY

Catalog Number: 13999-1-AP

14 Publications

Basic Information

Catalog Number:
13999-1-AP

Size:
91 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG5089

GenBank Accession Number:
BC047511

GeneID (NCBI):
10215

Full Name:
oligodendrocyte lineage transcription factor 2

Calculated MW:
32 kDa

Observed MW:
32 kDa

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:400-1:1600

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human,mouse,rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue; human brain tissue

IP : mouse brain tissue;

IHC : mouse brain tissue; human gliomas 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 NKG2-2-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.(PMD:19390819)

Notable Publications

Author	Pubmed ID	Journal	Application
Angela M Lager	30213958	Nat Commun	IF
Wei-Li Fan	28884834	J Cell Biochem	IF
Hongfei Ge	26503112	Sci Rep	WB, IF

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

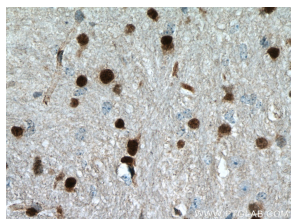
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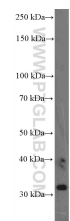
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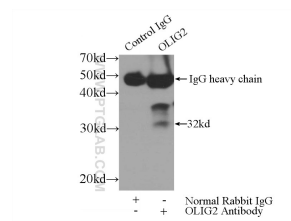
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13999-1-AP (OLIG2 antibody) at dilution of 1:800 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



mouse brain tissue were subjected to SDS PAGE followed by western blot with 13999-1-AP(OLIG2 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours



IP Result of anti-OLIG2 (IP: 13999-1-AP, 3ug; Detection: 13999-1-AP 1:500) with mouse brain tissue lysate 4000ug.