

Olig2 Rabbit mAb

Catalog No: #48708

Package Size: #48708-1 50ul #48708-2 100ul

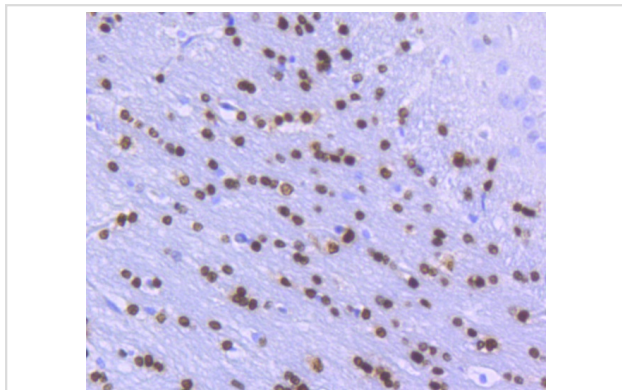
Description

Product Name	Olig2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SP07-02
Purification	ProA affinity purified
Applications	WB, IHC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Basic domain helix loop helix protein class B 1 antibody Basic helix loop helix protein class B 1 antibody BHLHB antibody bHLHB1 antibody bHLHe19 antibody Class B basic helix loop helix protein 1 antibody Class B basic helix-loop-helix protein 1 antibody class E basic helix loop helix protein 19 antibody Class E basic helix-loop-helix protein 19 antibody Human protein kinase C binding protein RACK17 antibody Olig2 antibody OLIG2_HUMAN antibody Oligo2 antibody Oligodendrocyte lineage transcription factor 2 antibody Oligodendrocyte specific bHLH transcription factor 2 antibody Oligodendrocyte transcription factor 2 antibody OTTHUMP00000067569 antibody OTTHUMP00000067570 antibody PRKCBP2 antibody Protein kinase C binding protein 2 antibody Protein kinase C binding protein RACK17 antibody Protein kinase C-binding protein 2 antibody Protein kinase C-binding protein RACK17 antibody RACK17 antibody
Accession No.	Swiss-Prot#:Q13516
Calculated MW	32 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

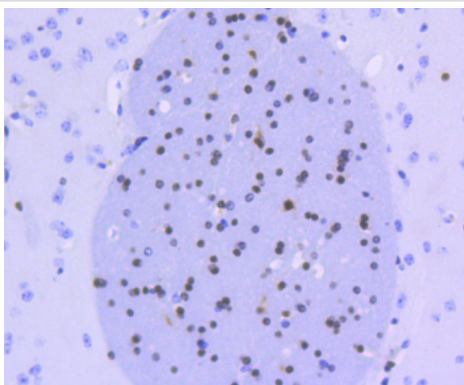
Application Details

WB: 1:500-1:1000IHC: 1:50-1:200

Images



Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Olig2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Olig2 antibody. Counter stained with hematoxylin.

Background

The oligodendrocyte lineage-specific basic helix-loop-helix (OLIG) family of transcription factors include OLIG1-OLIG3, which differ in tissue expression. OLIG1 and OLIG2 are specifically expressed in nervous tissue as gene regulators of oligodendrogenesis. OLIG2 is more widely expressed in embryonic brain than OLIG1, while OLIG3 is primarily expressed in non-neural tissues. OLIG1 and OLIG2 interact with the Nkx-2.2 homeodomain protein, which is responsible for directing ventral neuronal patterning in response to graded Sonic hedgehog signaling in the embryonic neural tube. These interactions between OLIG proteins and Nkx-2.2 appear to promote the formation of alternate cell types by inhibiting V3 interneuron development. OLIG1 and OLIG2 are abundantly expressed in oligodendroglioma and nearly absent in astrocytomas. Therefore, OLIG proteins are candidates for molecular markers of human glial brain tumors, which are the most common primary malignancies of the human brain.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.