

Anti-Olig-2/Oligo2 Antibody (2L225)

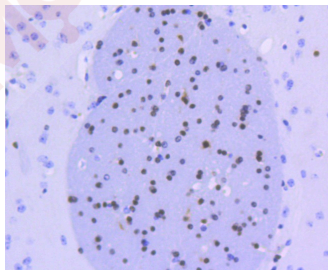
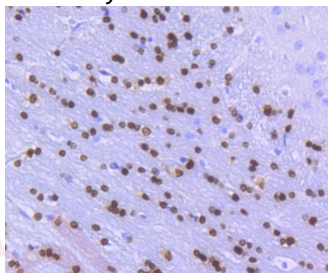
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 32 kDa.
Clone:	2L225
Purification:	ProA affinity purified

Applications

Verified Activity:

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



Application:	ICC/IF,IHC,WB
Recommended	WB: 1:500-1000; IHC: 1:50-200; ICC/IF: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein
Uniprot ID: Q13516
Synonyms: BHLHB1;RACK17;Olig2;PRKCBP2;OLIGO2;bHLHe19

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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