

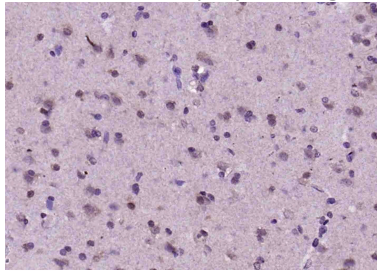
Anti-Olig-1/Oligo1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat,Dog,Pig,Cow)
Molecular Weight:	Theoretical: 28 kDa.
Purification:	Protein A purified

Applications

Verified Activity: Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (OLIG1) Polyclonal Antibody, Unconjugated (TMAB-01285) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.



Application:	IF,IHC-Fr,IHC-P
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; 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:	KLH conjugated synthetic peptide: human OLIG1
Antigen Species:	Human
Gene ID:	116448
Uniprot ID:	Q8TAK6
Synonyms:	BHLH B6;Oligo 1;Basic domain helix loop helix protein class B 6;BHLHB6;Olig 1;Class E basic helix-loop-helix protein 21;Oligodendrocyte specific bHLH transcription factor 1;bHLHe21; BHLHB 6;Oligodendrocyte lineage transcription factor 1;OLIG1;Class B basic helix-loop-helix protein 6;Basic domain helix loop helix protein class B6;Oligodendrocyte transcription factor 1; Oligo1
Biology Area:	Neurogenesis,Oligodendrocyte marker

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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