



Rabbit Anti-OLIG2 monoclonal antibody, clone TQ18-13 (CABT-L602)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Olig2
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TQ18-13
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IHC
Molecular Weight	32 kDa
Cellular Localization	Nucleus, Cytoplasm.
Positive Control	Rat brain tissue, mouse brain tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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BACKGROUND

Introduction	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 oligodendrogloma 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.
Keywords	Basic domain helix loop helix protein class B 1;Basic helix loop helix protein class B 1;BHLHB;bHLHB1;bHLHe19;Class B basic helix loop helix protein 1;Class B basic helix-loop-helix protein 1;class E basic helix loop helix protein 19;Class E basic helix-loop-helix protein 19;Human protein kinase C binding protein RACK17;Olig2;OLIG2_HUMAN;Oligo2;Oligodendrocyte lineage transcription factor 2;Oligodendrocyte specific bHLH transcription factor 2;Oligodendrocyte transcription factor 2;OTTHUMP00000067569;OTTHUMP00000067570;PRKCBP2;Protein kinase C binding protein 2;Protein kinase C binding protein RACK17;Protein kinase C-binding protein 2;Protein kinase C-binding protein RACK17;RACK17 antibody
