

OLIG2 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AP52803

Product Information

Application	WB
Primary Accession	Q13516
Reactivity	Transfected
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	32385

Additional Information

Gene ID	10215
Other Names	Basic domain helix loop helix protein class B 1; Basic helix loop helix protein class B 1; BHLHB1; 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.
Dilution	WB~~1:1000
Format	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	OLIG2
Synonyms	BHLHB1, BHLHE19, PRKCBP2, RACK17
Function	Required for oligodendrocyte and motor neuron specification in the spinal cord, as well as for the development of somatic motor neurons in the hindbrain. Functions together with ZNF488 to promote oligodendrocyte differentiation. Cooperates with OLIG1 to establish the pMN domain of the embryonic neural tube. Antagonist of V2 interneuron and of NKX2-2-induced V3 interneuron development.

Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00981}. Cytoplasm. Note=The NLS contained in the bHLH domain could be masked in the native form and translocation to the nucleus could be mediated by interaction either with class E bHLH partner protein or with NKX2-2.
Tissue Location	Expressed in the brain, in oligodendrocytes. Strongly expressed in oligodendrogliomas, while expression is weak to moderate in astrocytomas. Expression in glioblastomas highly variable

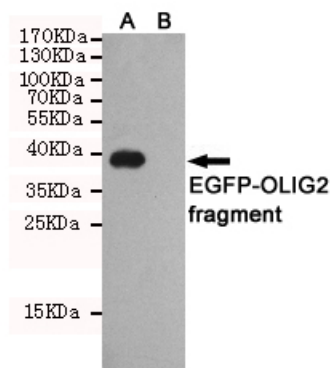
Background

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 to establish the pMN domain of the embryonic neural tube. Antagonist of V2 interneuron and of NKX2-2-induced V3 interneuron development (By similarity).

References

Kuroda S.,et al.Submitted (FEB-1996) to the EMBL/GenBank/DDBJ databases.
Wang J.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:3497-3502(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Marie Y.,et al.Lancet 358:298-300(2001).
Lu Q.R.,et al.Proc. Natl. Acad. Sci. U.S.A. 98:10851-10856(2001).

Images



Western blot detection of OLIG2 in CHO-K1 cell lysate(B)and CHO-K1 transfected by EGFP-OLIG2 fragment(A)cell lysate using OLIG2 mouse mAb (1:1000 diluted).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.