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OLIG2 Antibody (clone 3C9)

Mouse Monoclonal Antibody

Catalog # ALS14330

Specification

OLIG2 Antibody (clone 3C9) - Product Information

Application	**IHC**
Primary Accession	Q13516
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**32kDa KDa**

OLIG2 Antibody (clone 3C9) - Additional Information

Gene ID 10215

Other Names
Oligodendrocyte transcription factor 2, Oligo2, Class B basic helix-loop-helix protein 1, bHLHb1, Class E basic helix-loop-helix protein 19, bHLHe19, Protein kinase C-binding protein 2, Protein kinase C-binding protein RACK17, OLIG2, BHLHB1, BHLHE19, PRKCBP2, RACK17

Target/Specificity
Human Olig2

Reconstitution & Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
OLIG2 Antibody (clone 3C9) is for research use only and not for use in diagnostic or therapeutic procedures.

OLIG2 Antibody (clone 3C9) - 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.

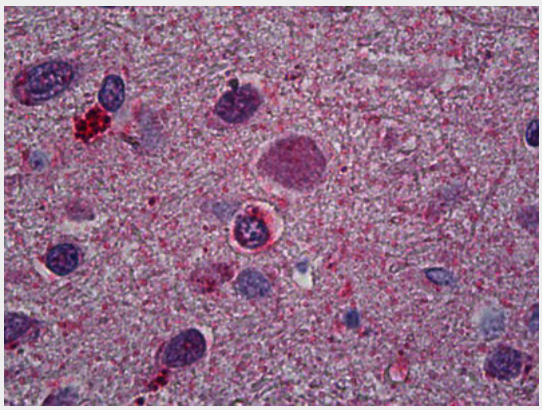
Tissue Location
Expressed in the brain, in oligodendrocytes. Strongly expressed in oligodendrogliomas, while expression is weak to moderate in astrocytomas. Expression in glioblastomas highly variable

OLIG2 Antibody (clone 3C9) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

OLIG2 Antibody (clone 3C9) - Images



Anti-OLIG2 antibody IHC of human brain, oligodendroglia.

OLIG2 Antibody (clone 3C9) - 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).

OLIG2 Antibody (clone 3C9) - 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).