

**OLIG2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18701c****Specification**

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**OLIG2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [O13516](#)**OLIG2 Antibody (Center) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**OLIG2 Antibody (Center) Blocking Peptide - 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 (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **OLIG2 Antibody (Center) Blocking Peptide - Images**

## **OLIG2 Antibody (Center) Blocking Peptide - Background**

This gene encodes a basic helix-loop-helix transcription factor which is expressed in oligodendroglial tumors of the brain. The protein is an essential regulator of ventral neuroectodermal progenitor cell fate. The gene is involved in a chromosomal translocation t(14;21)(q11.2;q22) associated with T-cell acute lymphoblastic leukemia. Its chromosomal location is within a region of chromosome 21 which has been suggested to play a role in learning deficits associated with Down syndrome. [provided by RefSeq].

## **OLIG2 Antibody (Center) Blocking Peptide - References**

Durand, K.S., et al. Mod. Pathol. 23(4):619-628(2010) Sims, R., et al. Neurosci. Lett. 461(1):54-59(2009) Hwang, D.H., et al. BMC Neurosci 10, 117 (2009) : Ishizawa, K., et al. Clin. Neuropathol. 27(3):118-128(2008) Ahn, S.M., et al. PLoS ONE 3 (12), E3917 (2008) :