

Anti-Olig2 Antibody

**Our Anti-Olig2 primary antibody from PhosphoSolutions is rabbit polyclonal. It detects human, mouse,
Catalog # AN1501**

Specification

Anti-Olig2 Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	O9EQW6
Reactivity	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	32407

Anti-Olig2 Antibody - Additional Information

Gene ID **50913**

Other Names

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

Target/Specificity

Olig2 is a transcription factor which is required for oligodendrocyte and motor neuron specification in the spinal cord, as well as for the development of somatic motor neurons in the hindbrain. Expressed in the ventral spinal cord as early as 9.5 dpc and scattered in the mantle zone, likely corresponding to oligodendrocyte progenitors migrating out from their site of origin. From 10.5 through 14.5 dpc, Olig2 is expressed in numerous cells in the ventricular and subventricular zones of the lateral and medial ganglionic eminences, suggesting that expression might not be limited to the oligodendrocytic lineage. Olig2 has further been shown to be critical in the proliferation of malignant glioma in brain tumors (Ligon et al., 2007)

Dilution

WB~~1:1000
IHC~~1:100~500
IF~~1:50~200

Format

Protein A purified

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-Olig2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

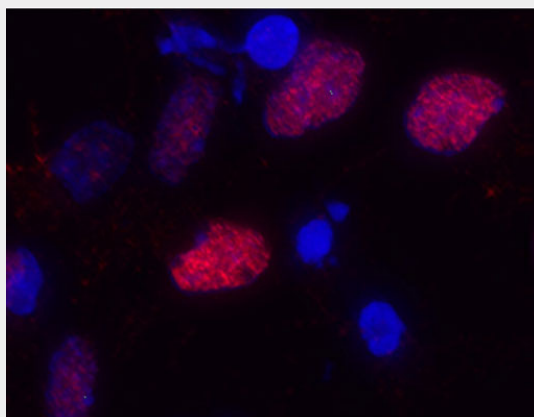
Shipping

Blue Ice

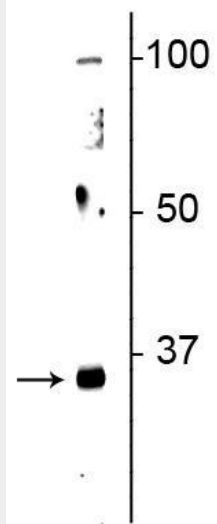
Anti-Olig2 Antibody - Protocols

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

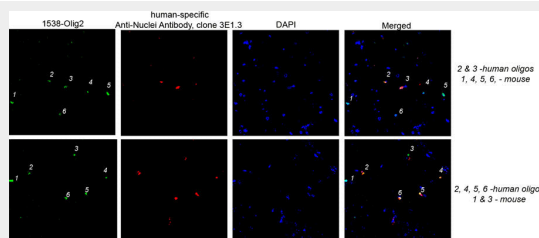
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Olig2 Antibody - Images

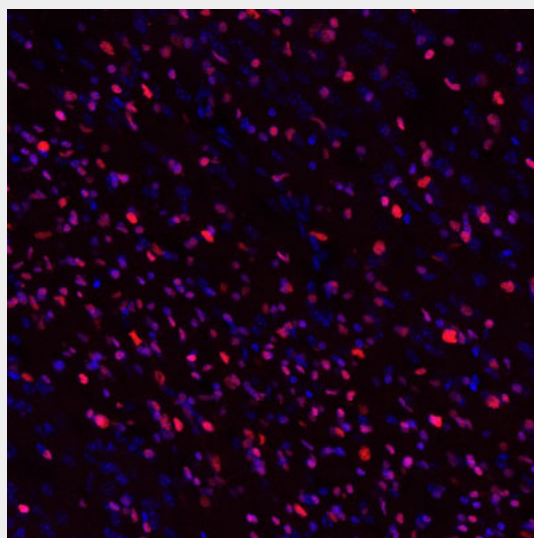
Immunostaining of primary rat cortical neuroepithelial cells with anti-Olig2 (cat. 1538-OLIG2, red, 1:1000). The cells were treated with basic FGF for 30 hours prior to staining (this induces Olig2 expression in these primary cells).



Western blot of neonatal rat brain lysate showing specific immunolabeling of the ~32 kDa Olig2 protein.



An illustration differentiating mouse and human oligodendrocytes in the process of glial humanization of a mouse brain model used to study HIV-1 infection. Immunofluorescence of paraffin embedded chimeric mouse brain 5- μ m thick tissue section immunolabeling oligodendrocytes with anti-OLIG2 antibody (cat. 1538-OLIG2, 1:500, green) and a human specific anti-nuclei antibody(clone 3E1.3). The blue stain is DAPI. Images courtesy Larisa Poluektova, University of Nebraska Medical Center.



Immunostaining of Olig 2 in 3-month-old mouse brain Olig 2: Red; Nuclear: Blue. Image courtesy of Mengmeng Jin, Rutgers University.

Anti-Olig2 Antibody - Background

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