

**Olig2 Antibody**  
**Rabbit polyclonal antibody**  
**Catalog # AN1177****Specification**

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**Olig2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9EQW6</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	27 KDa

**Olig2 Antibody - Additional Information**

Gene ID	50913
Gene Name	OLIG2
<b>Other Names</b>	
Oligodendrocyte transcription factor 2, Oligo2, Olig2	

**Target/Specificity**

Recombinant mouse Olig2.

**Dilution**

WB~~ 1:3000

**Format**

Protein A purified rabbit serum.

**Antibody Specificity**

Specific for the ~32 kDa Olig2 protein in Western blots. The antibody also works well for immunohistochemistry and immunocytochemistry.

**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**

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

**Shipping**

Blue Ice

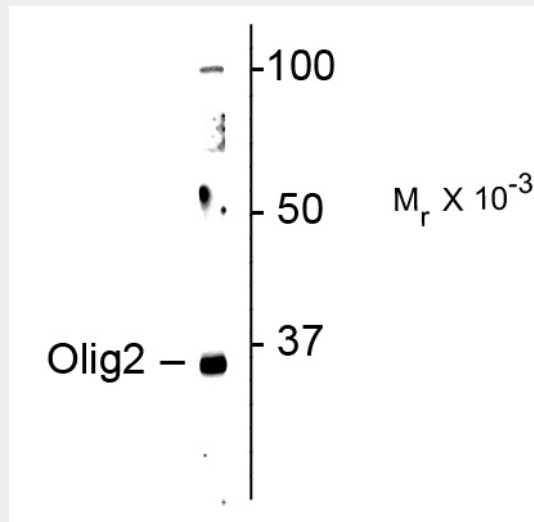
**Olig2 Antibody - Protocols**

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](#)

## Olig2 Antibody - Images



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

## Olig2 Antibody - Background

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).

## Olig2 Antibody - References

Arnett, H.A., et al. (2004) bHLH transcription factor Olig1 is required to repair demyelinated lesions in the CNS. *Science* 306(5704):2111-5.  
Ligon KL, Huillard E, Mehta S, Kesari S, Liu H, Alberta JA, Bachoo RM, Kane M, Louis DN, Depinho RA, Anderson DJ, Stiles CD, Rowitch DH (2007) Olig2 regulated lineage-restricted pathway controls replication competence in neural stem cells and malignant glioma. *Neuron* 53(4):503-17.