

**Olig1 Antibody**  
Rabbit polyclonal antibody  
Catalog # AN1176

**Specification**

**Olig1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9JKN5</a>
Reactivity	Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	27 KDa

**Olig1 Antibody - Additional Information**

Gene ID	50914
Gene Name	OLIG1
<b>Other Names</b>	
Oligodendrocyte transcription factor 1, Oligo1, Oligodendrocyte-specific bHLH transcription factor 1, Olig1	

**Target/Specificity**

Recombinant mouse Olig1.

**Dilution**

WB ~ 1:3000

**Format**

Protein A purified rabbit serum.

**Antibody Specificity**

Specific for the ~27 kDa Olig1 protein in Western blots. The antibody also works well for immunohistochemistry, immunocytochemistry and immunoprecipitation.

**Storage**

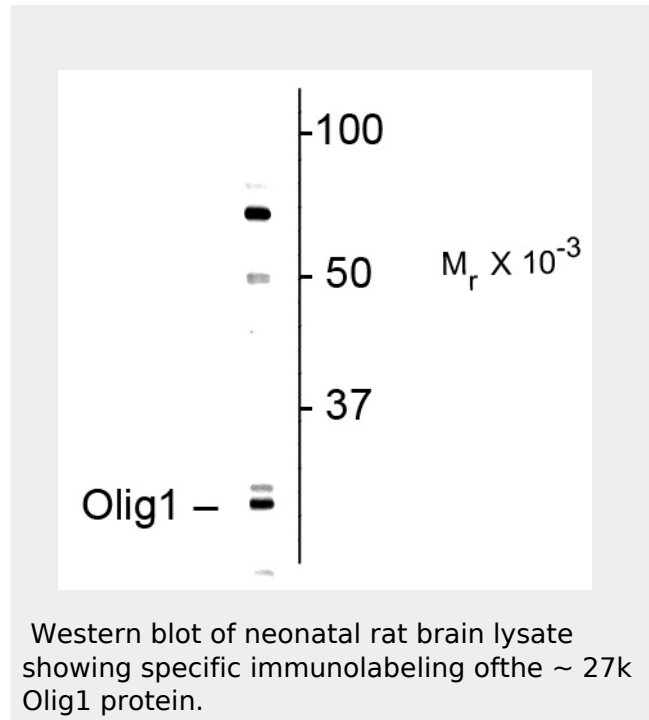
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Olig1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

Blue Ice



**Olig1 Antibody - Background**

Olig genes have been identified as the earliest known markers of oligodendrocyte lineage determination to date (Zhou et al., 2000). Olig1 is a transcription factor which promotes formation and maturation of oligodendrocytes, especially within the brain. It is expressed in the ventral spinal cord as early as 9.5 dpc and by 15.5 dpc, olig1 is dispersed throughout the gray matter. In the postnatal brain, it is present preferentially in the white matter, such as corpus callosum and cerebellar medulla. Olig1 has been demonstrated as necessary in the repair of brain lesions in patients with multiple sclerosis (Arnett et al. 2004).

**Olig1 Antibody - References**

Zhou Q, Wang S, Anderson DJ (2000) Identification of a novel family of oligodendrocyte lineage-specific basic helix-loop-helix transcription factors. *Neuron* 25(2):331-43

## **Olig1 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](#)

Arnett, H.A., et al. (2004) bHLH transcription factor Olig1 is required to repair demyelinated lesions in the CNS. *Science* 306(5704):2111-5.