

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

## Specification

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### 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 |

#### Other Names

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

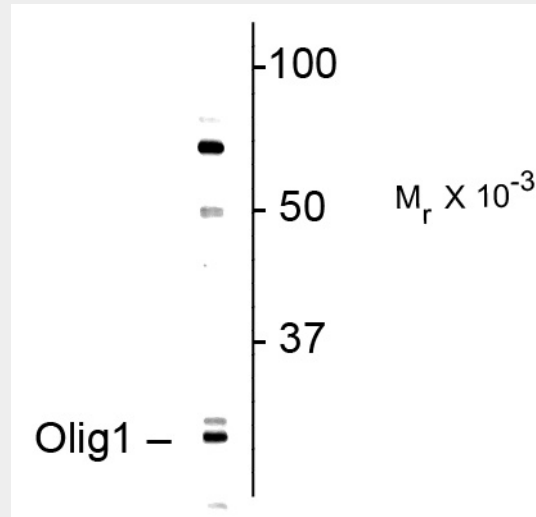
Blue Ice

### Olig1 Antibody - 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](#)

### Olig1 Antibody - Images



Western blot of neonatal rat brain lysate showing specific immunolabeling of the ~ 27k Olig1 protein.

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