

**Prox1 Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AN1179**

**Specification**

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**Prox1 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O92786</a>
Reactivity	<b>Chicken, Human, Mouse, Rat</b>
Host	<b>mouse</b>
Clonality	<b>monoclonal</b>
Isotype	<b>IgG1</b>

**Prox1 Antibody - Additional Information**

Gene ID	<b>5629</b>
Gene Name	<b>PROX1</b>
<b>Other Names</b>	
Prospero homeobox protein 1, Homeobox prospero-like protein PROX1, PROX-1, PROX1	

**Target/Specificity**

Recombinant human Prox1 protein.

**Dilution**

WB~~ 1:1000

**Format**

Protein G purified culture supernatant.

**Antibody Specificity**

Specifically labels prox1 in formalin-fixed, paraffin-embedded tissue.

**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**

Prox1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

Blue Ice

**Prox1 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](#)

### **Prox1 Antibody - Images**



Immunohistochemical staining of rat dentate gyrus showing specific immunolabeling of the prox1 protein. Photo courtesy of Justin Kievits and Teresa Milner, Weill Cornell Medical College.

### **Prox1 Antibody - Background**

Prox1 (Prospero-related homeobox 1) is a divergent homeogene that regulates cell proliferation, fate determination and differentiation during vertebrate embryonic development. The protein is expressed in the developing lens and is also detected in embryonic brain, lung, liver and kidney; while in adult it is more abundant in heart and liver than in brain, skeletal muscle, kidney and pancreas (Chen et al., 2006). Prox1 is thought to play a fundamental role in early development of the CNS and may regulate gene expression and development of postmitotic undifferentiated young neurons (Misra et al., 2008)

### **Prox1 Antibody - References**

Xiaoren Chen, Tapan P. Patel, William J. Cain, Melinda K. Duncan. Production of monoclonal antibodies against Prox1. *Hybridoma* (2006) Feb;25(1):27-33.

Misra K, Gui H, Matisse MP (2008) Prox1 regulates a transitory state for interneuron neurogenesis in the spinal cord. *Dev Dyn* 237(2):393-402.