

**Datasheet for 200-301-E18****PROX1 Antibody****Overview**

|                      |                                                      |
|----------------------|------------------------------------------------------|
| <b>Description:</b>  | Anti-PROX1 (MOUSE) Monoclonal Antibody - 200-301-E18 |
| <b>Item No.:</b>     | 200-301-E18                                          |
| <b>Size:</b>         | 100 µL                                               |
| <b>Applications:</b> | IHC                                                  |
| <b>Reactivity:</b>   | Human, Mouse, Rat, Chicken                           |
| <b>Host Species:</b> | Mouse                                                |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Background:</b>   | 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. 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. Anti-Prox1 Monoclonal Antibody is suitable for investigators involved in Cell Signaling, Neuroscience, and Signal Transduction research. |
| <b>Synonyms:</b>     | Prospero homeobox protein 1, Homeobox prospero-like protein PROX1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Host Species:</b> | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Clonality:</b>    | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Clone ID:</b>     | 5G10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Format:</b>       | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Target Details**

|                        |                            |
|------------------------|----------------------------|
| <b>Gene Name:</b>      | PROX1                      |
| <b>Reactivity:</b>     | Human, Mouse, Rat, Chicken |
| <b>Immunogen Type:</b> | Recombinant Protein        |

|                            |                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | Anti-Prox 1 Monoclonal Antibody was produced in mouse by repeated immunizations with recombinant human Prox1 protein.                                                       |
| <b>Purity/Specificity:</b> | Anti-Prox1 is directed against human Prox1 protein. This antibody is Protein G purified from cell culture supernatant. Reactivity is expected from chicken, mouse and rat.  |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q92786</a></li><li>• <a href="#">GeneID - 5629</a></li><li>• <a href="#">UniProtKB - Q92786.2</a></li></ul> |

## Application Details

|                             |                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | IHC                                                                                                                         |
| <b>Application Note:</b>    | Anti-Prox1 (Mouse) antibody has been tested by IHC. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                             |
| <b>IHC:</b>                 | 1:1000                                                                                                                      |

## Formulation

|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| <b>Physical State:</b> | Liquid                                                                           |
| <b>Concentration:</b>  | Titred value sufficient to run approximately 10 experiments.                     |
| <b>Buffer:</b>         | 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5                                     |
| <b>Preservative:</b>   | None                                                                             |
| <b>Stabilizer:</b>     | 0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage Condition:</b>  | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                         |

## Images

### Anti-Prox1



Immunohistochemical staining of rat dentate gyrus showing specific immunolabeling of the Prox-1 protein. Photo courtesy of Justin Kievits and Theresa Milner, Weill Cornell Medical college.

### Immunohistochemistry

Immunohistochemistry of Mouse anti-Prox1 antibody.  
Tissue: embryonic brain, lung, liver, and kidney. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Prox1 antibody at 1:1000 for 1 h at RT. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: Prox1 is in the rat dentate gyrus. Staining: Showing specific immunolabeling of the prox1 protein.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.