

Product datasheet for AP11899PU-N

PROX1 (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

WB **Applications:**

Recommended Dilution: ELISA 1:1,000.

Western blot 1:100 - 1:500.

Reactivity: Human, Mouse

Host: Rabbit

Isotype: lg

Clonality: Polyclonal

This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide Immunogen:

selected from the N-terminal region of human PROX1.

Specificity: This antibody detects PROX1 at N-term.

Formulation: PBS with 0.09% (W/V) sodium azide

State: Purified

State: Liquid Ig fraction

Concentration: lot specific

Purification: Protein G column, eluted with high and low pH buffers and neutralized immediately, followed

by dialysis against PBS

Conjugation: Unconjugated

Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid Storage:

repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: prospero homeobox 1

Database Link: Entrez Gene 5629 Human

Q92786



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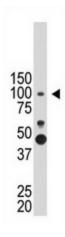
Background:

The expression pattern of the Prox1 homeo box gene suggests that it has a role in a variety of embryonic tissues, including lens. Analysis of mRNA reveals that Prox mRNA is present in many different human tissues and that lens demonstrated the highest level. Homozygous Prox1-null mice die at midgestation from multiple developmental defects, and a targeted effect on lens development has been reported. Prox1 inactivation caused abnormal cellular proliferation, downregulated expression of the cell cycle inhibitors Cdkn1b and Cdkn1c, misexpression of E-cadherin, and excessive apoptosis. Consequently, mutant lens cells failed to polarize and elongate properly, resulting in a hollow lens. The Prox1 gene is expressed in a subpopulation of endothelial cells that by budding and sprouting give rise to the lymphatic system. Prox1 appears to be a specific and required regulator of the development of the lymphatic system. Prox1 also has been document to be required for hepatocyte migration in the mouse. Loss of Prox1 results in a smaller liver with a reduced population of clustered hepatocytes. The homeodomain protein Prox1 regulates the egress of progenitor cells from the cell cycle in the embryonic mouse retina. Cells lacking Prox1 are less likely to stop dividing, and ectopic expression of Prox1 forces progenitor cells to exit the cell cycle. Prox1 acts as a key participant in progenitor-cell proliferation and cell-fate determination in the vertebrate retina.

Synonyms: PROX1

Note: Molecular weight: 83162 Da

Product images:



The anti-PROX1 N-term is used in Western blot to detect PROX1 in mouse brain tissue lysate.