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## Anti-human Prox-1

**Description:** Prox-1 is a homeobox gene and acts as a master switch for lymphatic endothelial phenotype. Expression of Prox-1 in blood endothelial cells induces expression of other lymphatic marker genes. Together with Podoplanin, Prox-1 can be used to reliably distinguish lymphatic vessels from blood vessels. Prox-1 is expressed in CNS, eye, pancreas, liver and heart, and it is one of the most specific and reliable markers for lymphatic endothelial cells.

Produced from sera of rabbits immunised with the recombinant highly conserved C-terminal part of the homeobox transcription factor Prox1.

<b>Host species:</b>	Rabbit
<b>Antigen:</b>	Recombinant human C-terminal part of Prox-1 (homeo domain and prospero domain)
<b>Purification:</b>	Protein A chromatography
<b>Stabilizer:</b>	none
<b>Buffer:</b>	lyophilized from PBS, pH 7.4 w/o preservative
<b>Formulation:</b>	lyophilized rabbit IgG

**Reconstitution:** The lyophilized IgG is stable at 4°C for at least one month and for more than a year when kept at -20°C. When reconstituted in sterile water to a concentration of >0.5 mg/ml the antibody is stable for at least six weeks at 2-4°C in the presence of a preservative. Reconstituted antibody can also be aliquotted and stored at -20°C to -70°C for at least 6 months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### Applications

**Specificity:** This antibody will detect Prox-1 in the nucleus of lymphatic endothelial cells by immunostaining

**Optimal dilutions should be determined by each laboratory for each application.**

**Immunofluorescence:** Use 1:750 to 1:1000 dilutions.

**Western Blotting:** Use 1-5µg/ml.

**Usage:** Anti-human Prox-1 is offered for research use. Not for drug use. **Not for human use.**

**Catalogue number:** 102-PA32S

**Size:** 100 µg

**Literature:** [Belecky et al., Invest Ophthalmol Vis Sci 38, 1293 (1997); Glasgow, Tomarev, Mech. Dev. 76, 175 (1998); Rodriguez-Niedenfuhr et al., Anat Embryol 204, 399 (2001); Wilting et al., FASEB J 16, 1271 (2002); Krishnan et al., Cancer Res. 63, 713 (2003); Mouta et al., Cancer Res. 61, 8079, (2001) ; Padera et al., Science 296, 1883 (2002)]

**\*\* please note : always centrifuge vials before opening \*\***