

Product datasheet for **DP3501PS**

PROX1 (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Suitable for Western Blot and Immunohistochemistry on Frozen and Paraffin Sections.
Reactivity:	Fish, Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide corresponding to the Homeobox domain of Prox1.
Specificity:	This antibody is reactive with Prox-1. It will be a useful tool to study lymphatic vessel density in and around human tumors. It will detect Prox-1 in the nucleus of lymphatic endothelial cells.
Formulation:	State: Purified State: Liquid purified IgG fraction in PBS
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	prospero homeobox 1
Database Link:	Entrez Gene 19130 Mouse Entrez Gene 305066 Rat Entrez Gene 5629 Human Q92786
Background:	The homeobox gene Prox-1 was originally cloned by homology to the Drosophila melanogaster gene prospero. Prox-1 is expressed in a subpopulation of endothelial cells which by budding and sprouting, give rise to the lymphatic system. Prox-1-deficient homozygous mice have unaffected vasculogenesis and angiogenesis, but liver and lymphatics do not develop. Human Prox-1 gene has been mapped to chromosome 1q32.2-q32.3, and its product shows 94% similarity to the chicken protein. The conserved structure and expression pattern of the Prox-1 gene imply that it may play the same roles in humans as in other vertebrates. The human Prox-1 gene is most actively expressed in the developing lens. Anti-Prox-1 antibodies provide a highly specific marker of lymphatic endothelial cells.



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Synonyms: PROX1

Protein Families: Embryonic stem cells, ES Cell Differentiation/IPS