

Datasheet for ABIN1589859

anti-PROX1 antibody**9** Publications[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	PROX1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PROX1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Purpose:	Prox-1 antibody
Immunogen:	Recombinant human Prox-1 (ABIN1589681)
Isotype:	IgG
Specificity:	Recombinant human Prox-1
Characteristics:	Chromosomal location: 1q32.2-q32.3
Purification:	Protein A purified

Target Details

Target:	PROX1
Alternative Name:	Prox-1 (PROX1 Products)
Background:	PROX1, W117m, Prox-1 is a homeobox gene and acts as a master switch for lymphatic

Target Details

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 immunized with the recombinant highly conserved C-terminal part of the homeobox transcription factor Prox-1.

Gene ID: 5629

NCBI Accession: [NM_002763](#), [NP_002754](#)

UniProt: [Q92786](#)

Pathways: [Stem Cell Maintenance](#), [Regulation of Muscle Cell Differentiation](#)

Application Details

Application Notes: Western Blot: Use 1-5 µg/mL

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL.

Buffer: 0.5X PBS, pH 7.2

Handling Advice: Centrifuge vial prior to opening. Avoid repeated freeze-thaw cycles.

Storage: 4 °C, -20 °C

Storage Comment: The lyophilized antibody is stable for at least 2 years at -20°C. After sterile reconstitution the antibody is stable at 2-8°C for up to 6 months. Frozen aliquots are stable for at least 6 months when stored at -20°C. Addition of a carrier protein or 50% glycerol is recommended for frozen aliquots.

Expiry Date: 24 months

Publications

Product cited in: Lee, Koh: "Coordinated lymphangiogenesis is critical in lymph node development and maturation." in: **Developmental dynamics : an official publication of the American**

Association of Anatomists, (2016) ([PubMed](#)).

Quagliata, Klusmeier, Cremers, Pytowski, Harvey, Pettis, Thiele, Sleeman: "Inhibition of VEGFR-3 activation in tumor-draining lymph nodes suppresses the outgrowth of lymph node metastases in the MT-450 syngeneic rat breast cancer model." in: **Clinical & experimental metastasis**, Vol. 31, Issue 3, pp. 351-65, (2014) ([PubMed](#)).

Kaltezioti, Antoniou, Stergiopoulos, Rozani, Rohrer, Politis: "Prox1 regulates Olig2 expression to modulate binary fate decisions in spinal cord neurons." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 34, Issue 47, pp. 15816-31, (2014) ([PubMed](#)).

Sleeckx, Van Brantegem, Van den Eynden, Franssen, Casteleyn, Van Cruchten, Veldhuis Kroeze, Van Ginneken: "Angiogenesis in canine mammary tumours: a morphometric and prognostic study." in: **Journal of comparative pathology**, Vol. 150, Issue 2-3, pp. 175-83, (2014) ([PubMed](#)).

Trindade, Torrelo, Kutzner, Requena, Tellechea, Colmenero: "An immunohistochemical study of angiokeratomas of children." in: **The American Journal of dermatopathology**, Vol. 36, Issue 10, pp. 796-9, (2014) ([PubMed](#)).

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