

Anti-Prospero homeobox protein 1 PROX1 Antibody

Catalog Number: PA2229

About PROX1

Prospero homeobox protein 1, also called PROX1 is a protein that in humans is encoded by the PROX1 gene. This gene is mapped to 1q32.3. The protein encoded by this gene is a member of the homeobox transcription factor family. Members of this family contain a homeobox domain that consists of a 60-amino acid helix-turn-helix structure that binds DNA and RNA. The protein encoded by this gene is conserved across vertebrates and may play an essential role during development. Altered levels of this protein have been reported in cancers of different organs, such as colon, brain, blood, breast, pancreas, liver and esophagus.

Overview

Product Name	Anti-Prospero homeobox protein 1 PROX1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Prospero homeobox protein 1 PROX1 Antibody catalog # PA2229. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q92786

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human PROX1, identical to the related mouse and rat sequences.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse</p>

Anti-Prospero homeobox protein 1 PROX1 Antibody (PA2229) Images



Anti-PROX1 antibody, PA2229, Western blotting

Lane 1: Rat Thymus Tissue Lysate

Lane 2: HELA Cell Lysate

Lane 3: JURKAT Cell Lysate

Lane 4: MM231 Cell Lysate

2 Publications Citing This Product

1. PubMed ID: 32515838, Meng FW, Jing XN, Song GH, Jie LL, Shen FF. Prox1 induces new lymphatic vessel formation and promotes nerve reconstruction in a mouse model of sciatic nerve crush injury. *J Anat.* 2020 Nov; 237(5):933-940. doi: 10.1111/joa.13247. Epub 2020 Jun 9. PMID: 32515838; PMCID:

2. PubMed ID: 27203545, Fucoidan inhibits lymphangiogenesis by downregulating the expression of VEGFR3 and PROX1 in human lymphatic endothelial cells

Visit bosterbio.com/anti-prox1-antibody-pa2229-boster.html to see all 2 publications.

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