

Recombinant Human PROX1 Protein, His-tagged

Cat. No. PROX1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PROX1 Protein with a His tag was expressed in HEK293.
Species	Human
Source	HEK293
Description	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. Alternative splicing results in multiple transcript variants.
Molecular Mass	19.9 kDa
AA Sequence	QEGLSPNHLKKAKLMFFYTRYPSSNMLKTYFSDVKFNRCITSQLIKWFSNFREFYYIQ MEKYARQAINDGVTSTEELSITRDCELYRALNMHYNKANDFEVPERFLEVAQITLREF FNIIAGKDVDPSPWKKAIYKVICKLDSEVPEIFKSPNCLQELLHEHHHHHH
Endotoxin	< 1 EU/μg
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the

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protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.1 mg/mL

Storage Buffer PBS, pH 7.4.

GENE INFORMATION

Gene Name [PROX1 prospero homeobox 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [PROX1](#)

Synonyms PROX1; prospero homeobox 1;

Gene ID [5629](#)

mRNA Refseq [NM_002763](#)

Protein Refseq [NP_002754](#)

MIM [601546](#)

UniProt ID [Q92786](#)

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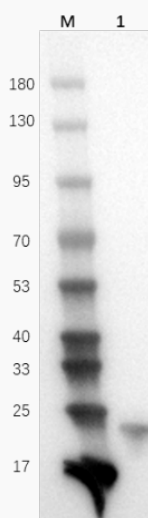
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SDS-PAGE



Reducing 12% SDS-PAGE and WB analysis profiles of purified PROX1.



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The figure consists of two panels, A and B, showing Western blots of p70S6 phosphorylation. Panel A shows results from a single experiment, while panel B shows results from three independent experiments. Both panels have molecular weight markers on the left (130, 95, 70, 55, 40, 35, 25, 17 kDa) and sample lanes at the top labeled M, P, K, L, D, E, F, G, H, I, J, K, L.

A step function graph on a grid. The x-axis is labeled with numbers 1 through 10. The y-axis is labeled with numbers 0 through 6. The function starts at y=0 for x=1 to 4, jumps to y=1 for x=5 to 6, jumps to y=2 for x=7 to 8, jumps to y=3 for x=9 to 10, and jumps to y=6 for x=11 to 12. There is a small peak at x=11, y=1.