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Datasheet for ABIN1589681 **PROX1 Protein (partial)**

Overview

Quantity:	5 µg
Target:	PROX1
Protein Characteristics:	partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	Western Blotting (WB)

Product Details

Sequence:	MAEGLSLSLI KSECGDLQDM SEISPYSGSA MQEGLSPNHL KKAKLMFFYT RYPSSNMLKT YFSDVKFNRC ITSQLIKWFS NFREFYYIQM EKYARQAIND GVTSTEELSI TRDCELYRAL NMHYNKANDF EVPERFLEVA QITLREFFNA IIAGKDVDPS WKKAIYKVIC KLDSEVPEIF KSPNCLQELL HE
Characteristics:	Length (AA): 192 Chromosomal location: 1q32.2-q32.3
Purity:	> 95 % by SDS-PAGE. Visualized by silver stain

Target Details

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

Target Details

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. Prox1 is expressed in CNS, eye, pancreas, liver and heart, and it is one of the most specific and reliable markers for lymphatic endothelial cells. The highly conserved C-terminal part of the homeobox transcription factor Prox1 was produced in E. coli. It was not tested for activity and can be used as positive control e.g. in Western analysis.

Synonyms: PROX1, W117m

Molecular Weight: 22.35 kDa

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

UniProt: [Q92786](#)

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

Application Details

Application Notes: Control for Western Blotting. Biological activity not tested.

Comment: Cytokines & Growth Factors

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: The lyophilized Prox-1 should be reconstituted in water to a concentration not lower than 50 µg/mL.

Buffer: PBS

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20 °C. Reconstituted Prox-1 should be stored in working aliquots at -20 °C.