Recombinant Human Prospero Homeobox 1

Cat. No. PROX1-958H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human prospero homeobox 1 produced in*E.coli*was not tested for activity and can be used as positive control e.g. in Western analysis. MW=25 kDa.
Species	Human
Source	E.coli
Description	Prox-1 is a homeobox gene and acts as a master switch for lymphatic 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 lympathic 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.
Purity	>95%by SDS-PAGE and visualised by silver stain.
Endotoxin level	<0.1ng/μg of Prox-1.
Stabilizer	None.
Buffer	PBS.
Formulation	Lyophilized.
Reconstitution	We recommend a quick spin followed by reconstitution in water to a concentration of

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	0.1-1.0mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4℃ for 1 week or -20℃ for future use.
Stability	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20℃. Reconstituted Prox-1 should be stored in working aliquots at -20℃. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	PROX1 prospero homeobox 1 [Homo sapiens]
Synonyms	PROX1; prospero homeobox 1; prospero-related homeobox 1; Prospero homeobox protein 1; Homeobox prospero-like protein PROX1; PROX-1
Gene ID	5629
mRNA Refseq	NM_002763
Protein Refseq	NP_002754
MIM	601546
UniProt ID	Q92786
Chromosome Location	1q41
Function	DBD domain binding; LBD domain binding; RNA polymerase II transcription factor activity, enhancer binding; ligand-dependent nuclear receptor binding; promoter binding; protein binding; transcription corepressor activity

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