

Recombinant Human PKNOX1, His-tagged

Cat. No. PKNOX1-208H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PKNOX1, 1-436, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-436aa
Description	Hmeobox protein PKNOX1 is a DNA-binding protein that forms stable complexes with PBX proteins which synergize with AP-1 binding factors to augment transcription of the urokinase gene. Also referred to as UEF3, PRP-1 or p64, PKNOX1 appears to be a general DNA-binding factor involved in modulating the transcriptional activity of AP-1 containing promoters. Recombinant human PKNOX1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol
Molecular Mass	49.7 kDa (456aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MMATQTLSD SYQDGQQMQV VTELKTEQDP NCSEPDAEGV SPPPVESQTP MDVDKQAIYR HPLFPLLALL FEKCEQSTQG SEGTTASFD VDIENTFVRKQ EKEGKPFCE DPETDNLMMVK AIQVLRHLL ELEKVNELCK DFCSRYIACL KTKMNSETLL SGEPGSPYSP VQSQQIQSAI TGTISPQGIV VPASALQQGN VAMATVAGGT VYQPVTVVTP QGQVVTQTLS

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PGTIRIQNSQ LQLQLNQDLS ILHQDDGSSK NKRGVLPKHA TNVMRSWLFQ
 HIGHPYPTED EKKQIAAQTN LTLLQVNNWF INARRRILQP MLDSSCSETP
 KTKKKTAQNR PVQRFWPDSI ASGVAQPPPS ELTMSEGAVV TITTPVNMNV
 DSLQSLSSDG ATLAVQQVMM AGQSEDESVD STEEDAGALA PAHISGLVLE
 NSDSLQ

Purity >80% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [PKNOX1 PBX/knotted 1 homeobox 1 \[Homo sapiens \]](#)

Official Symbol PKNOX1

Synonyms PKNOX1; PBX/knotted 1 homeobox 1; homeobox protein PKNOX1; PREP1; PBX/knotted homeobox 1; homeobox protein PREP-1; Pbx regulating protein-1; human homeobox-containing protein; pkonx1c;

Gene ID [5316](#)

mRNA Refseq [NM_004571](#)

Protein Refseq [NP_004562](#)

MIM [602100](#)

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UniProt ID	P55347
Chromosome Location	21q22.3
Function	protein heterodimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity;

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