

Recombinant Full Length Human PBX homeobox 1 Protein, Flag tagged

Cat. No. PBX1-14HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human pre-B-cell leukemia homeobox 1 (PBX1) with C-Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293
ProteinLength	1-430 aa
Description	This gene encodes a nuclear protein that belongs to the PBX homeobox family of transcriptional factors. Studies in mice suggest that this gene may be involved in the regulation of osteogenesis and required for skeletal patterning and programming. A chromosomal translocation, t(1;19) involving this gene and TCF3/E2A gene, is associated with pre-B-cell acute lymphoblastic leukemia. The resulting fusion protein, in which the DNA binding domain of E2A is replaced by the DNA binding domain of this protein, transforms cells by constitutively activating transcription of genes regulated by the PBX protein family. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Tag	C-Flag
Molecular Mass	46.4 kDa
AA Sequence	MDEQPRLMHSAGVGMAGHPGLSQHLQDGAGGTEGEGGRKQDIGDILQQIMTITD

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QSLDEAQARKHALNCHRMKPALFNVLCIEKEKTVLSIRGAQEEPTDPQLMRLDNML
 LAEGVAGPEKGGGSAAAAAASGGAGSDNSVEHSDYRAKLSQIRQIYHTELEKY
 EQACNEFTTHVMNLLREQSRTRPISPKEIERMVSIIHRKFSSIQMQLKQSTCEAVMIL
 RSRFLDARRKRRNFNKQATEILNEYFYSHLSNPYPSEEAKEELAKKCGITVSQVSNW
 FGKRIIRYKKNIGKFQEEANIYAAKTAVTATNVSAHGSQANSPSTPNSAGSSSSFNM
 SNSGDLFMSVQSLNGDSYQGAQVGANVQSQVDTLRHVISQTGGYSDGLAASQMY
 SPQGISANGGWQDATTSSVTSPTEGPGSVHSDTSNTRTRPLEQKLISEEDLAANDI
 LDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Storage Buffer	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Concentration	> 0.05 µg/µL as determined by microplate BCA method

GENE INFORMATION

Gene Name	PBX1 PBX homeobox 1 [Homo sapiens (human)]
Official Symbol	PBX1
Synonyms	PBX1; PBX homeobox 1; CAKUHD; pre-B-cell leukemia transcription factor 1; homeobox protein PBX1; homeobox protein PRL; pre-B-cell leukemia homeobox 1

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Gene ID	5087
mRNA Refseq	NM_002585
Protein Refseq	NP_002576
MIM	176310
UniProt ID	P40424
SDS-PAGE	