

Product datasheet for **TP310944L**

PBX1 (NM_002585) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human pre-B-cell leukemia homeobox 1 (PBX1), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA >RC210944 protein sequence

Clone or AA **Red**=Cloning site **Green**=Tags(s)

Sequence:

MDEQPRLMHSAGVGMAGHPGLSQHLQDGAGGTEGEGGRKQDIGDILQQIMTITDQSLDEAQARKHALNC
HRMKPALFNVLCEIKEKTVLSIRGAQEEPTDPQLMRLDNMLLAEGVAGPEKGGGSAASGGAG
SDNSVEHSDYRAKLSQIRQIYHTELEKYEQACNEFTTHVMNLLREQSRTRPISPKEIERMVSIIHRKFSS
IQMQLKQSTCEAVMILRSRFLDARRKRRNFNKQATEILNEYFYSHLSNPYPSEEAKEELAKKCGITVSQV
SNWFGNKRIYKKNIGKFQEEANIYAAKTAVTATNVAHGSQANSPSTPNSAGSSSFNMSNSGDLFMSV
QSLNGDSYQGAQVGANVQSQVDTLRHVISQTGGYSDGLAASQMYSPQGISANGGWQDATTSSVTSPTTEG
PGSVHSDTSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 46.4 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_002576](#)



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Locus ID: 5087

UniProt ID: [P40424](#), [A1MJ41](#), [A8K5V0](#)

RefSeq Size: 6918

Cytogenetics: 1q23.3

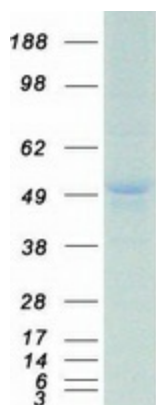
RefSeq ORF: 1290

Synonyms: CAKUHEP

Summary: 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. [provided by RefSeq, Jun 2017]

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Product images:



Coomassie blue staining of purified PBX1 protein (Cat# [TP310944]). The protein was produced from HEK293T cells transfected with PBX1 cDNA clone (Cat# [RC210944]) using MegaTran 2.0 (Cat# [TT210002]).