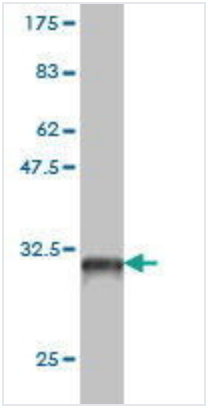
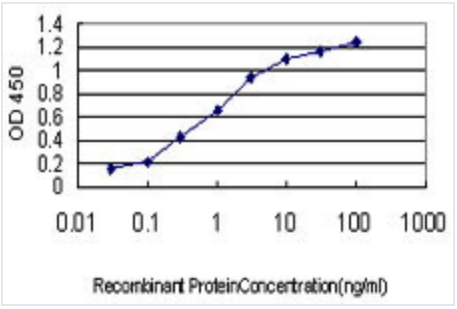
PBX4 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PBX4, Monoclonal Antibody
Full Product Name	PBX4 (Pre-B-cell Leukemia Transcription Factor 4, Homeobox Protein PBX4)
Product Gene Name	anti-PBX4 antibody
Product Synonym Names	Anti -PBX4 (Pre-B-cell Leukemia Transcription Factor 4, Homeobox Protein PBX4)
Immunogen Sequence	AGDAFLTLRT LASLQPPPGG GCLQSQAQGS WQGATPQPAT ASPAGDPGSI NSSTSN
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1D8
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Recognizes human PBX4.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	40,854 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (19672516..19729725, complement). Location: 19p12
OMIM	608127
3D Structure	ModBase 3D Structure for Q9BYU1
Immunogen	Partial recombinant corresponding to aa319-375 from human PBX4 (NP_079521) with GST tag. MW of the GST tag alone is 26kD.
Product Categories/Family for anti-PBX4 antibody	Antibodies; Abs to Transcription Factors; Homeobox (HOX)
Applications Tested/Suitable for anti-PBX4 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-PBX4 antibody	Suitable for use in ELISA and Western Blot.
Related Product Information for anti-PBX4 antibody	MBS645786 is an antibody targeting PBX4. Also known as PBX4 (Pre-B-cell Leukemia Transcription Factor 4, Homeobox Protein PBX4). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-PBX4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PBX4 antibody
Western Blot detection against Immunogen (32.27kD).



Testing Data of anti-PBX4 antibody
Detection limit for recombinant GST tagged PBX4 is ~0.03ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PBX4. It may not necessarily be applicable to this product.

NCBI GI #	15149472
NCBI GeneID	80714
NCBI Accession #	NP_079521.1
UniProt Primary Accession #	Q9BYU1
UniProt Secondary Accession #	A5D8Y0; B3KUK9
UniProt Related Accession #	Q9BYU1
GenBank Nucleotide #	NM_025245.2
NCBI Official Full Name	pre-B-cell leukemia transcription factor 4
NCBI Official Synonym Full Names	pre-B-cell leukemia homeobox 4
NCBI Official Symbol	PBX4
UniProt Protein Name	Pre-B-cell leukemia transcription factor 4
UniProt Synonym Protein Names	Homeobox protein PBX4
Protein Family	Pre-B-cell leukemia transcription factor
UniProt Gene Name	PBX4
UniProt Entry Name	PBX4_HUMAN
NCBI Protein Information	pre-B-cell leukemia transcription factor 4; homeobox protein PBX4
NCBI Summary for PBX4	This gene encodes a member of the pre-B cell leukemia transcription factor family. These proteins are homeobox proteins that play critical roles in embryonic development and cellular differentiation both as Hox cofactors and through Hox-independent pathways. The encoded protein contains a homeobox DNA-binding domain, but specific functions of the protein have not been determined. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, May 2011]
UniProt Comments for PBX4	Subcellular location: Nucleus Potential. Sequence similarities: Belongs to the TALE/PBX homeobox family.Contains 1 homeobox DNA-binding domain. Sequence caution: The sequence BC033067 differs from that shown. Reason: Frameshift at position 137.

Research Articles on PBX4	**1.** up-regulation of PREP1 and PBX genes could be implicated in the modulation of the cellular response to chemotherapeutic-induced apoptosis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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