



Anti-PBX1 (aa 213-321) polyclonal antibody (DPAB-DC2101)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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.
Immunogen	PBX1 (NP_002576, 213 a.a. ~ 321 a.a) partial recombinant protein with GST tag. The sequence is MQLKQSTCEAVMILRSRFLDARRKRRNFNKQATEILNEYFYSHLSNPYPSEEAKEELAKK CGITVSQVSNWFGNKRIRYKKNIGKFQEEANIYAAKTAVTATNVSAHGS
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PBX1 pre-B-cell leukemia homeobox 1 [Homo sapiens (human)]
Official Symbol	PBX1
Synonyms	PBX1; pre-B-cell leukemia homeobox 1; pre-B-cell leukemia transcription factor 1; homeobox protein PRL; homeobox protein PBX1;
Entrez Gene ID	5087
Protein Refseq	NP_001191890
UniProt ID	A8K5V0
Chromosome Location	1q23
Pathway	Developmental Biology; SIDS Susceptibility Pathways; Transcriptional regulation of pluripotent stem cells;
Function	DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; protein binding; protein heterodimerization activity