

Rabbit PBX1 Polyclonal Antibody | anti-PBX1 antibody

PBX1 Antibody

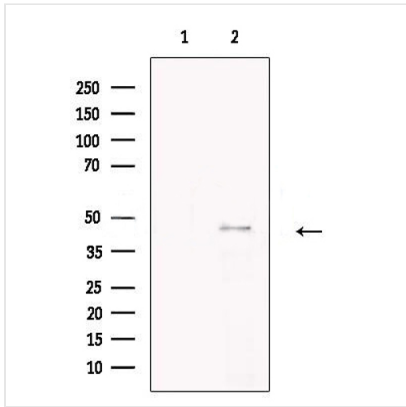
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328999	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%)	ELISA

PRODUCT SYNONYMS

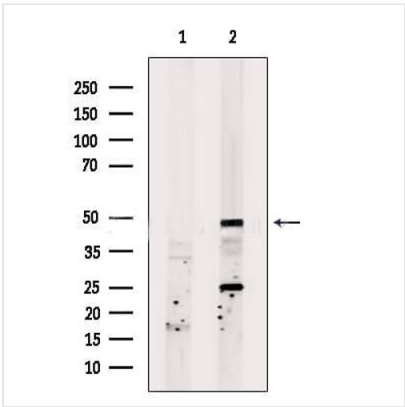
PBX1; Polyclonal Antibody; PBX1 Antibody; DKFZp686B09108; Homeo box protein PBX1; Homeo box protein PRL; Homeobox protein PBX 1; Homeobox protein PBX1; Homeobox protein PRL; MGC126627; PBX 1; Pbx1; PBX1_HUMAN; Pre B cell leukemia homeobox 1; Pre B cell leukemia transcription factor 1; Pre-B-cell leukemia transcription factor 1; PRL; anti-PBX1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	PBX1 Antibody detects endogenous levels of total PBX1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	430
Applicable Applications for anti-PBX1 antibody	ELISA
Immunogen	A synthesized peptide derived from human PBX1, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts from K562, using PBX1 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from Rat brain, using PBX1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PBX1 antibody	Function: Binds the sequence 5'-ATCAATCAA-3'. Acts as a transcriptional activator of PF4 in complex with MEIS1. Converted into a potent transcriptional activator by the (1;19) translocation. May have a role in steroidogenesis and, subsequently, sexual development and differentiation. Isoform PBX1b as part of a PDX1:PBX1b:MEIS2b complex in pancreatic acinar cells is involved in the transcriptional activation of the ELA1 enhancer; the complex binds to the enhancer B element and cooperates with the transcription factor 1 complex (PTF1) bound to the enhancer A element. Probably in complex with MEIS2, is involved in transcriptional regulation by KLF4. Acts as a transcriptional activator of NKX2-5 and a transcriptional repressor of CDKN2B. Together with NKX2-5, it is required for spleen development through a mechanism that involves CDKN2B repression (By similarity).
	Subcellular Location: Nucleus.
	Tissue Specificity: Expressed in the kidney. Expressed in the endothelial cells of the glomeruli and interstitium (at protein level) (PubMed:28270404). Expressed in all tissues except in cells of the B and T lineage. Expressed strongly in kidney and brain (PubMed:28270404).
	Subunit Structure: Forms a heterodimer with MEIS1 which binds DNA including a cAMP-responsive sequence in CYP17. Also forms heterotrimers with MEIS1 and a number of HOX proteins including HOXA9, HOXD4, HOXD9 and HOXD10. Interacts with PBXIP1 and TLX1. Isoform PBX1a interacts with MEIS2 isoform 4, SP1, SP3 and KLF4. Isoform PBX1b is part of a PDX1:PBX1b:MEIS2b complex; PBX1b recruits Meis2B to the complex. Interacts with FOXC1 (PubMed:15684392).
Similarity: Belongs to the TALE/PBX homeobox family.	

NCBI AND UNIPROT INFORMATION

NCBI GI #	730279
NCBI GeneID	5087
UniProt Accession #	P40424
Molecular Weight	Observed Molecular Weight: (Observed)46kD. Predicted Molecular Weight: (Calculated)47kDa.
NCBI Official Full Name	Pre-B-cell leukemia transcription factor 1
NCBI Official Synonym Full Names	PBX homeobox 1
NCBI Official Symbol	PBX1
NCBI Official Synonym Symbols	CAKUHD

NCBI Protein Information	pre-B-cell leukemia transcription factor 1
UniProt Protein Name	Pre-B-cell leukemia transcription factor 1
UniProt Gene Name	PBX1
UniProt Synonym Gene Names	PRL
UniProt Entry Name	PBX1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pbx1-antibody-elisa/328999>