## Cell Signaling Pbx1 Antibody H. Orders:



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Applications: W, IP, IF-IC	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 42, 52	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P40424	Entrez-Gene Id: 5087
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence		istry)		<b>Dilution</b> 1:1000 1:100 1:400
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Pbx1 Antibody detects endogenous levels of total Pbx1a and Pbx1b proteins.				
Species predicted to react based on 100% sequence homology		Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly29 of human Pbx1 protein. Antibodies are purified by protein A and peptide affinity chromatography				
Background	BackgroundThe Pbxs (Pre-B cell leukemia transcription factors) belong to the Three Amino Acid Loop Extension (TALE) family of homeodomain containing protein (1). Pbx1 has two isoforms, Pbx1a and 1b, that an divergent in sequence at the carboxy terminus, which is a result of alternative mRNA splicing. Unlik other homeoselector genes that have restricted expression in development Pbx genes are ubiquite expressed in both fetal and adult tissue (1). Human pre-B cell acute leukemias are frequently associated with a t(1;19)(q23;p13.3) translocation that results in a fusion between the E2A and Pbx' genes (2,3). Pbx1 genes are not normally expressed in lymphoid tissues, and the E2A-Pbx1 fusion protein is a potent transcription factor that drives aberrant gene expression.					
Background Re	eferences	1. Moens, C.B. and Selleri, L. (2006) <i>Dev. Biol.</i> 291, 193-206. 2. Kamps, M.P. et al. (1990) <i>Cell</i> 60, 547-555. 3. Lu, Q. et al. (1994) <i>Mol. Cell Biol.</i> 14, 3938-3948.				
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key		H: Human M: Mouse				
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