

# Product Datasheet

## PBX1 Antibody (4A2)

### H00005087-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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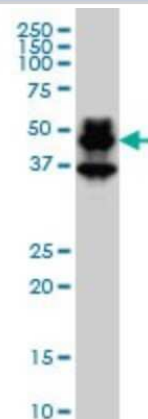
**H00005087-M01**

PBX1 Antibody (4A2)

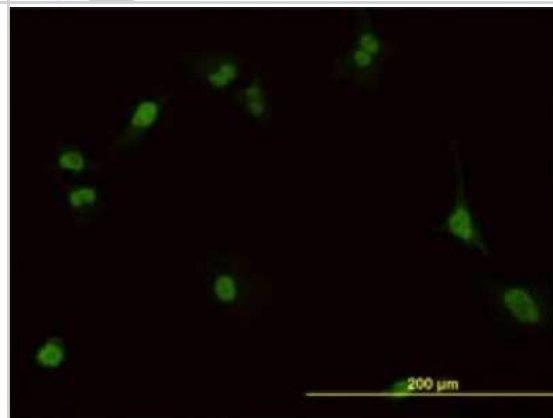
Product Information	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4A2
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
Product Description	
<b>Description</b>	Quality control test: Antibody Reactive Against Recombinant Protein.
<b>Host</b>	Mouse
<b>Gene ID</b>	5087
<b>Gene Symbol</b>	PBX1
<b>Species</b>	Human, Mouse, Monkey
<b>Specificity/Sensitivity</b>	PBX1 - pre-B-cell leukemia transcription factor 1
<b>Immunogen</b>	PBX1 (NP_002576, 213 a.a. ~ 321 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MQLKQSTCEAVMILRSRFLDARRKRRNFNKQATEILNEYFYSHLSNPYPSEEAK EELAKKCGITVSQVSNWFGNKRIRYKKNIGKFQEEANIYAAKTAVTATNVSAHG S
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Sandwich ELISA, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunoprecipitation, Immunohistochemistry-Paraffin 1:10-1:500, Sandwich ELISA 1:100-1:2000, Chromatin Immunoprecipitation (ChIP)
<b>Application Notes</b>	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for IF, IHC-P and ELISA. Use in Immunohistochemistry reported in scientific literature (PMID: 26610607).

## Images

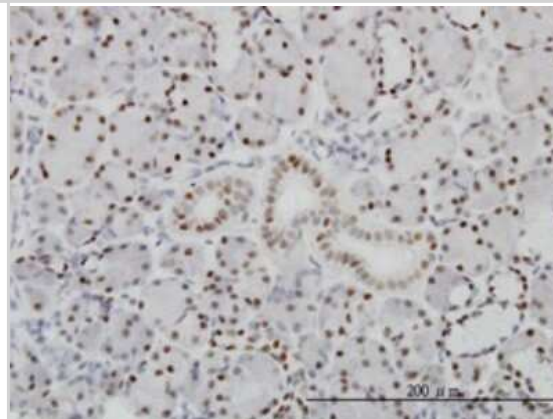
Western Blot: PBX1 Antibody (4A2) [H00005087-M01] - PBX1 monoclonal antibody (M01), clone 4A2 Analysis of PBX1 expression in HeLa S3 NE.



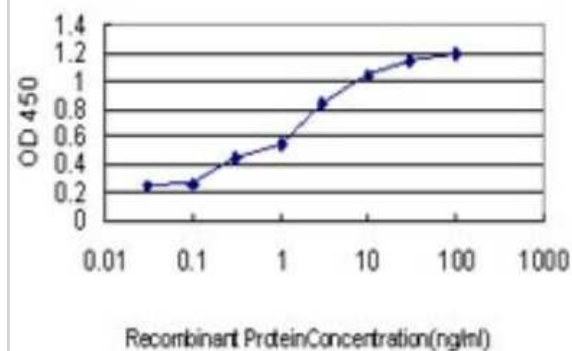
Immunocytochemistry/Immunofluorescence: PBX1 Antibody (4A2) [H00005087-M01] - Analysis of monoclonal antibody to PBX1 on HeLa cell. Antibody concentration 10 ug/ml.



Immunohistochemistry-Paraffin: PBX1 Antibody (4A2) [H00005087-M01] - Analysis of monoclonal antibody to PBX1 on formalin-fixed paraffin-embedded human salivary gland. Antibody concentration 3 ug/ml.



Sandwich ELISA: PBX1 Antibody (4A2) [H00005087-M01] - Detection limit for recombinant GST tagged PBX1 is approximately 0.03ng/ml as a capture antibody.



## Publications

Yao-An S, Jin J, Geoffrey S et al. Development of small molecule inhibitors targeting PBX1 transcription signaling as a novel cancer therapeutic strategy. *iScience*. 2021-11-19 [PMID: 34816098]

Yinan L, Ertao Z, Junting C et al. m 6 A-mediated regulation of PBX1-GCH1 axis promotes gastric cancer proliferation and metastasis by elevating tetrahydrobiopterin levels. *Cancer Commun (Lond)*. 2022-03-09 [PMID: 35261206]

Satoshi S, Mayuko I, Yuko M et al. Histological and immunohistochemical analysis of epithelial cells in epidermoid cysts in intrapancreatic accessory spleen. *J Med Invest*. 2023-02-15 [PMID: 37164730]

Toska E, Castel P, Chhangawala S et al. PI3K Inhibition Activates SGK1 via a Feedback Loop to Promote Chromatin-Based Regulation of ER-Dependent Gene Expression. *Cell Rep*. 2019-04-02 [PMID: 30943409]

Wang J, Shidfar A, Ivancic D et al. Overexpression of lipid metabolism genes and PBX1 in the contralateral breasts of women with estrogen receptor-negative breast cancer. *Int J Cancer* 2017-03-21 [PMID: 28263391]

Ramberg H, Grytli HH, Nygard S et al. PBX3 is a putative biomarker of aggressive prostate cancer. *Int J Cancer* 2016-10-15 [PMID: 27273830]

DellOrso S, Wang AH, Shih HY et al. The Histone Variant MacroH2A1.2 Is Necessary for the Activation of Muscle Enhancers and Recruitment of the Transcription Factor Pbx1. *Cell Rep* 2016-02-09 [PMID: 26832413]

Nguyen VT, Barozzi I, Faronato M et al. Differential epigenetic reprogramming in response to specific endocrine therapies promotes cholesterol biosynthesis and cellular invasion. *Nat Commun* 2015-01-01 [PMID: 26610607] (IF/IHC)

Cheung CL, Chan BY, Chan V et al. Pre-B-cell leukemia homeobox 1 (PBX1) shows functional and possible genetic association with bone mineral density variation. *Hum Mol Genet*. 2009-02-15 [PMID: 19064610]

Bjerke GA, Hyman-Walsh C, Wotton D. Cooperative transcriptional activation by klf4, meis2, and pbx1. *Mol Cell Biol*. 2011-07-11 [PMID: 21746878]

Magnani L, Ballantyne EB, Zhang X, Lupien M. PBX1 Genomic Pioneer Function Drives ER alpha Signaling Underlying Progression in Breast Cancer. *PLoS Genet*. 2011-11-17 [PMID: 22125492]

Horman SR, Velu CS, Chaubey A et al. Gfi1 integrates progenitor versus granulocytic transcriptional programming. *Blood* 2009-05-01 [PMID: 19346496]





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### **Products Related to H00005087-M01**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
H00005087-Q01-10ug	Recombinant Human PBX1 GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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