

Product Datasheet

PBX1 Antibody (4A2) - Azide and BSA Free H00005087-M01

Unit Size: 0.1 mg

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

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H00005087-M01

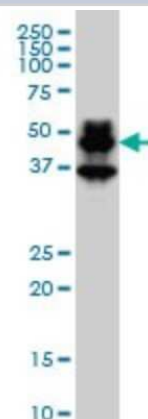
PBX1 Antibody (4A2) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4A2
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	5087
Gene Symbol	PBX1
Species	Human, Mouse, Monkey
Specificity/Sensitivity	PBX1 - pre-B-cell leukemia transcription factor 1
Immunogen	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 EELAKKCGITVSQVSNWFGNKRIRYKKNIGKFQEEANIYAAKTAVTATNVSAHGS
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Sandwich ELISA, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	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)
Application Notes	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).

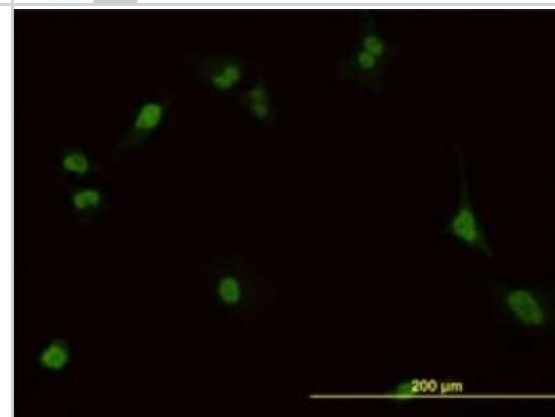


Images

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



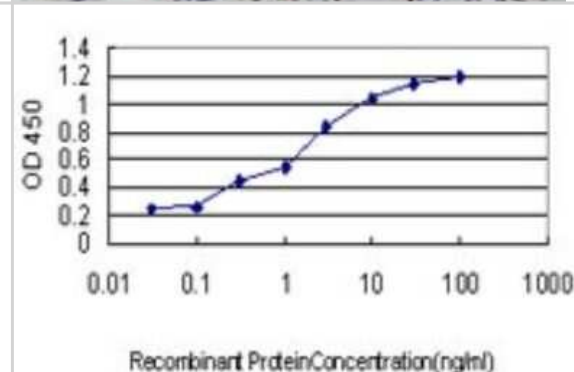
Immunocytochemistry/Immunofluorescence: PBX1 Antibody (4A2) [H00005087-M01] - Analysis of monoclonal antibody to PBX1 on HeLa cell. Antibody concentration 10 ug/ml.



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]
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- 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]





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to H00005087-M01

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

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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