

# Product Datasheet

## HP1 alpha Antibody - BSA Free NB110-40623

Unit Size: 100 ul

Store at 4C. Do not freeze.

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**NB110-40623**

HP1 alpha Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

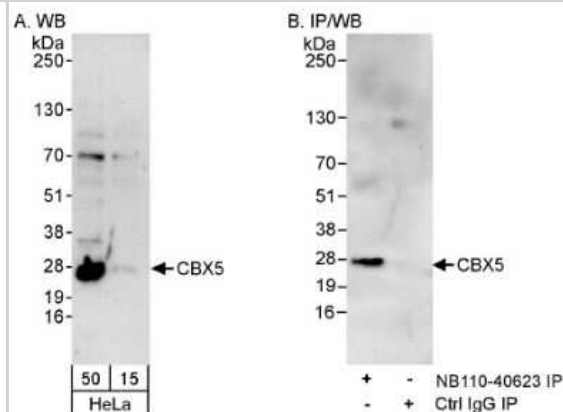
Product Description	
Host	Rabbit
Gene ID	23468
Gene Symbol	CBX5
Species	Human
Marker	Heterochromatin Marker
Immunogen	The immunogen recognized by this antibody maps to a region between residue 150 and the C-terminus (residue 191) of human Chromobox Homolog 5 using the numbering given in entry NP_036249.1 (GeneID 23468).

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:1000-1:10000, Immunohistochemistry 1:200-1:10000, Immunoprecipitation 2-5 ug/mg lysate, Immunohistochemistry-Paraffin 1:200-1:10000, Chromatin Immunoprecipitation (ChIP) 1:10-1:500
Application Notes	Chip, IP reactivity reported in (PMID: 23045645). Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.

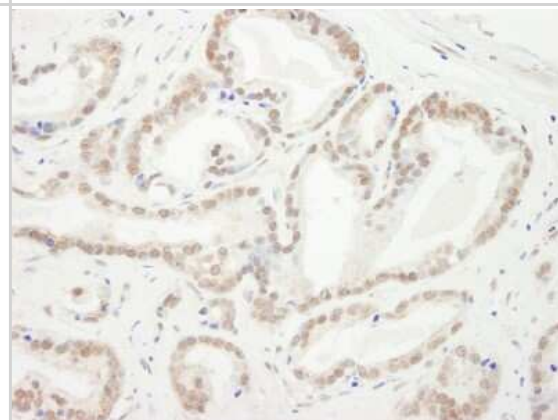


## Images

Western Blot: HP1 alpha Antibody [NB110-40623] - Whole cell lysate (15 and 50 mcg for WB; 1 mg for IP, 20% of IP loaded) from HeLa cells. NB110-40623 used for WB at 0.1 mcg/ml (A) and 1 mcg/ml (B) and used for IP at 3 mcg/mg lysate (B).



Immunohistochemistry-Paraffin: HP1 alpha Antibody [NB110-40623] - Section of human prostate carcinoma. Antibody: Affinity purified rabbit anti-CBX5 used at a dilution of 1:5,000 (0.2ug/ml). Detection: DAB



## Publications

Maram Quttina, Kacie D. Waiters, Ashfia Fatima Khan, Samaneh Karami, Anthony S. Peidl, Mariam Funmi Babajide, Justus Pennington, Fatima A. Merchant, Tasneem Bawa-Khalfe, Jian-Ying Wang, Xiao-Di Tan Exosc9 Initiates SUMO-Dependent lncRNA TERRA Degradation to Impact Telomeric Integrity in Endocrine Therapy Insensitive Hormone Receptor-Positive Breast Cancer Cells 2023-10-20 [PMID: 37887339]

Wang C, Zhang W, Chen X et al. The spreading of facultative H3K9me3-heterochromatin drives congenital disease bioRxiv 2023-08-14 (IP, Mouse)

Roworth AP, Carr SM, Liu G et al. Arginine methylation expands the regulatory mechanisms and extends the genomic landscape under E2F control Sci Adv 2019-06-01 [PMID: 31249870] (Chemotaxis, Human)

Bawa-Khalfe T. Isolation of In Vivo SUMOylated Chromatin-Bound Proteins. Methods Mol. Biol. 2016-09-16 [PMID: 27631808] (IP)

Zhu H, Ren S, Bitler BG et al. SPOP E3 Ubiquitin Ligase Adaptor Promotes Cellular Senescence by Degrading the SENP7 deSUMOylase. Cell Rep. 2015-11-10 [PMID: 26527005] (Chemotaxis, Human)

Bawa-Khalfe T, Lu LS, Zuo Y et al. Differential expression of SUMO-specific protease 7 variants regulates epithelial-mesenchymal transition Proc Natl Acad Sci U S A 2012-10-08 [PMID: 23045645] (Chemotaxis, IP, Human)



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### **Products Related to NB110-40623**

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NBL1-08750	HP1 alpha Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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