

For Research Use Only

# CBX1 Polyclonal antibody

Catalog Number: 10241-2-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

10241-2-AP

### Size:

150ul, Concentration: 650 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0328

### GenBank Accession Number:

BC002609

### GeneID (NCBI):

10951

### Full Name:

chromobox homolog 1 (HP1 beta homolog Drosophila )

### Calculated MW:

27 kDa

### Observed MW:

27 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for IP and 1:500-1:1000

for WB

IF 1:50-1:500

## Applications

### Tested Applications:

IF, IP, WB, ELISA

### Cited Applications:

IF, IHC, IP, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : A431 cells, MCF-7 cells, HEK-293 cells, human brain tissue, NIH/3T3 cells

IP : HEK-293 cells,

IF : HEK-293 cells,

## Background Information

One function of heterochromatin is the epigenetic silencing by sequestration of genes into transcriptionally repressed nuclear neighborhoods. Heterochromatin protein 1 (HP1) is a major component of heterochromatin and is a candidate for establishing and mediating gene silencing. This protein is expressed in all adult and embryonic tissues, as a homodimer.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yin Zhao	36310139	Adv Sci (Weinh)	WB,IHC,IP
Zhangping He	32161174	J Virol	WB
Guang Yang	28361889	Nat Commun	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

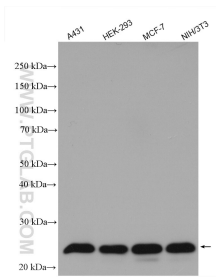
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

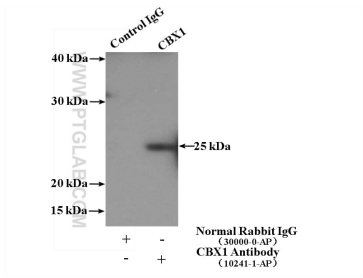
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

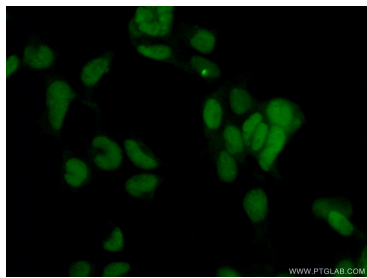
Selected Validation Data



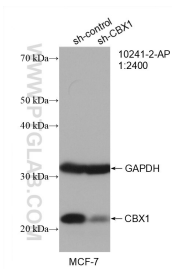
Various lysates were subjected to SDS PAGE followed by western blot with 10241-2-AP (CBX1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



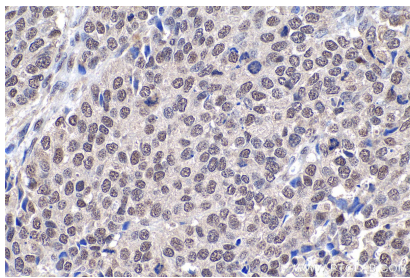
IP Result of anti-CBX1 (IP:10241-2-AP, 3ug; Detection:10241-2-AP 1:500) with HEK-293 cells lysate 1480ug.



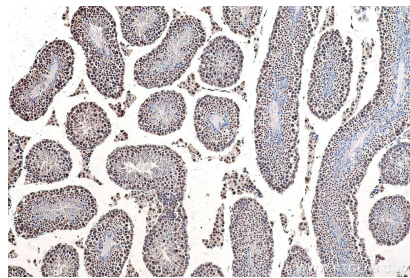
Immunofluorescent analysis of (10% Formaldehyde) fixed HEK-293 cells using 10241-2-AP (CBX1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



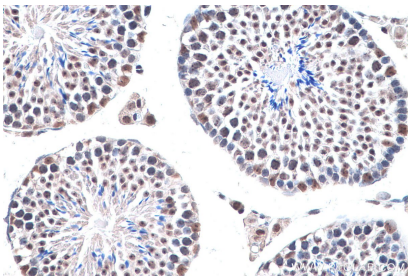
WB result of CBX1 antibody (10241-2-AP; 1:2400; incubated at room temperature for 1.5 hours) with sh-Control and sh-CBX1 transfected MCF-7 cells.



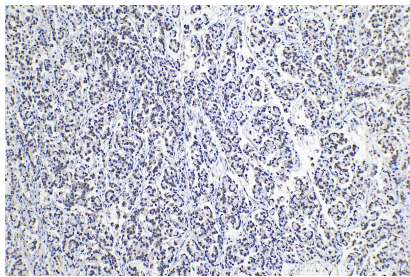
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 10241-2-AP (CBX1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



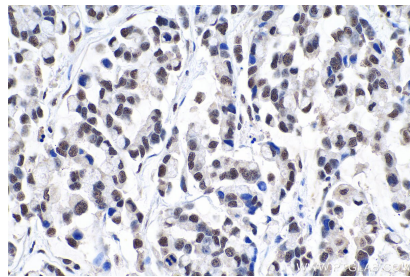
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 10241-2-AP (CBX1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



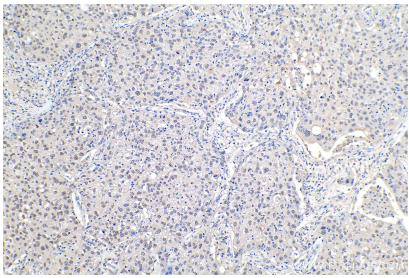
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 10241-2-AP (CBX1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



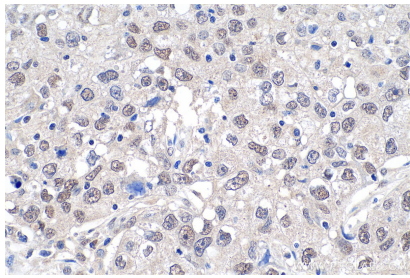
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10241-2-AP (CBX1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



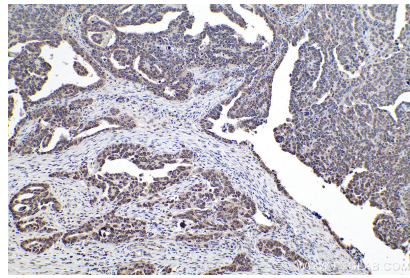
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10241-2-AP (CBX1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



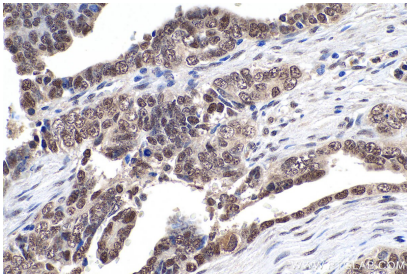
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10241-2-AP (CBX1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



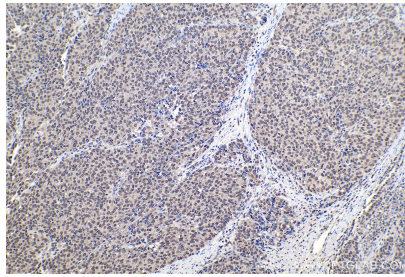
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10241-2-AP (CBX1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 10241-2-AP (CBX1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 10241-2-AP (CBX1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 10241-2-AP (CBX1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).