

For Research Use Only

# CBX4 Polyclonal antibody

Catalog Number: 18544-1-AP

Featured Product

3 Publications



## Basic Information

### Catalog Number:

18544-1-AP

### Size:

500 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13425

### GenBank Accession Number:

BC014967

### GeneID (NCBI):

8535

### UNIPROT ID:

O00257

### Full Name:

chromobox homolog 4 (Pc class homolog, Drosophila)

### Calculated MW:

61 kDa

### Observed MW:

~75 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IF 1:50-1:400

## Applications

### Tested Applications:

IF/ICC, WB, ELISA

### Cited Applications:

WB, IF, PLA

### Species Specificity:

human, mouse, rat

### Cited Species:

human

### Positive Controls:

WB : Various cell, HEK-293 cell, PC-3 cells

IF : U2OS cell, HeLa cells

## Background Information

CBX4, also named as E3 SUMO-protein ligase CBX4 or Polycomb 2 homolog, is a 560 amino acid protein, which contains 1 chromo domain. CBX4 facilitates SUMO1 conjugation by UBE2L. CBX4 acting as a transcriptional co-repressor is involved in maintaining the transcriptionally repressive state of genes, modifies chromatin, rendering it heritably changed in its expressibility. CBX4 localizes in the nucleus and is widely expressed in various tissues. The calculated molecular weight of CBX4 is 61 kDa, but the modified CBX4 may be a 70-75 kDa protein.

## Notable Publications

Author	Pubmed ID	Journal	Application
Immacolata Giordano	34621739	Front Cell Dev Biol	WB,IF,PLA
Zengxi Yang	33464142	Bioengineered	WB
Liwei Ren	37691307	Mol Oncol	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

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

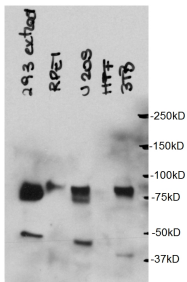
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

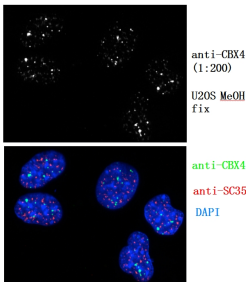
W: [ptgcn.com](http://ptgcn.com)

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

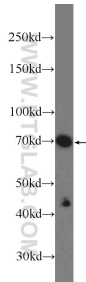
Selected Validation Data



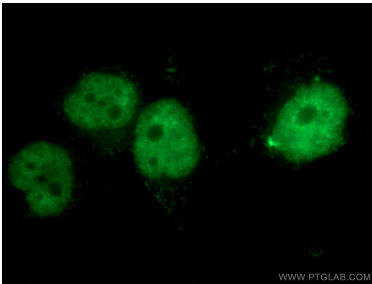
WB result of anti-CBX4 (18544-1-AP) with various cell. (Courtesy of L. Pirone and R. Barrio, CIC bioGUNE).



IF result of anti-CBX4 (18544-1-AP, 1:200) with U2OS cell, MeOH fixation. (Courtesy of L. Pirone and R. Barrio, CIC bioGUNE).



PC-3 cells were subjected to SDS PAGE followed by western blot with 18544-1-AP (CBX4 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HeLa cells using 18544-1-AP (CBX4 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).