

For Research Use Only

# CBX4 Polyclonal antibody

Catalog Number: 18544-1-AP

Featured Product

3 Publications



## Basic Information

Catalog Number:

18544-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

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/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IF/ICC, 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/ICC : 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

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

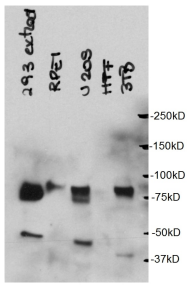
For technical support and original validation data for this product please contact:

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

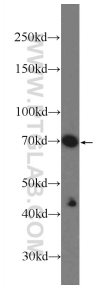
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

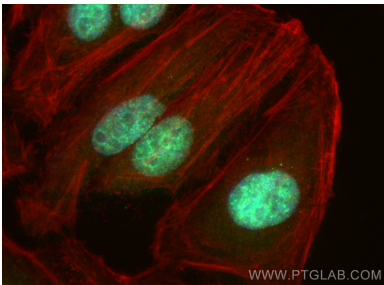
Selected Validation Data



WB result of anti-CBX4 (18544-1-AP) with various cell. (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 (4% PFA) fixed HeLa cells using CBX4 antibody (18544-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).