

## CBX4 Antibody

Rabbit mAb Catalog # AP92320

## **Product Information**

Application	WB
Primary Accession	<u>000257</u>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	CBX4: bPc2: NBP16: PC2:
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	61368

## **Additional Information**

Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human CBX4
Description	E3 SUMO-protein ligase which facilitates SUMO1 conjugation by UBE2I.
	Component of the Polycomb group (PcG) multiprotein PRC1 complex, a complex required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## **Protein Information**

Name	CBX4
Function	E3 SUMO-protein ligase that catalyzes sumoylation of target proteins by promoting the transfer of SUMO from the E2 enzyme to the substrate (PubMed: <u>12679040</u> , PubMed: <u>22825850</u> ). Involved in the sumoylation of HNRNPK, a p53/TP53 transcriptional coactivator, hence indirectly regulates p53/TP53 transcriptional activation resulting in p21/CDKN1A expression. Monosumoylates ZNF131 (PubMed: <u>22825850</u> ).
Cellular Location	Nucleus. Nucleus speckle. Note=Localization to nuclear polycomb bodies is required for ZNF131 sumoylation (PubMed:22467880). Localized in distinct foci on chromatin (PubMed:18927235)
Tissue Location	Ubiquitous.
Images	



Western blot analysis of CBX4 expression in 293T cell lysate.

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