

Rabbit CBX4 Polyclonal Antibody | anti-CBX4 antibody

CBX4 Antibody

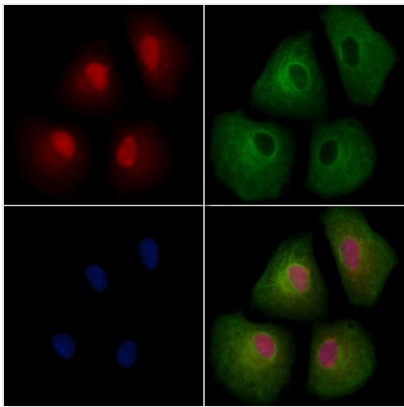
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329034	Rabbit	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig(100%), Zebrafish(88%), Bovine(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(88%)	ELISA

PRODUCT SYNONYMS

CBX4; Polyclonal Antibody; CBX4 Antibody; CBX 4; Cbx4 chromobox homolog 4 (Drosophila Pc class); CBX4_HUMAN; Chromobox homolog 4 (Pc class homolog; Drosophila); Chromobox homolog 4; Chromobox protein homolog 4; E3 SUMO protein ligase CBX 4; E3 SUMO protein ligase CBX4; E3 SUMO-protein ligase CBX4; hPc 2; hPc2; NBP 16; NBP16; NS5ATP1 binding protein 16; Pc 2; Pc class 2 homolog; Pc class homolog; Pc class homolog Drosophila; PC2; Polycomb 2 homolog; anti-CBX4 antibody

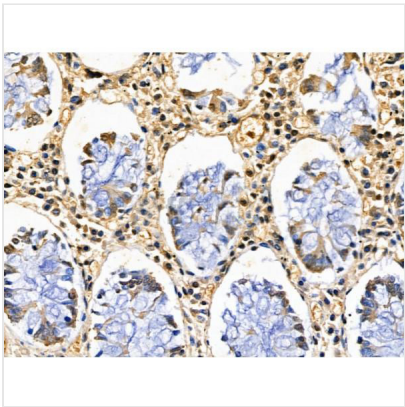
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig(100%), Zebrafish(88%), Bovine(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	CBX4 Antibody detects endogenous levels of total CBX4.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	560
Applicable Applications for anti-CBX4 antibody	ELISA
Immunogen	A synthesized peptide derived from human CBX4, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



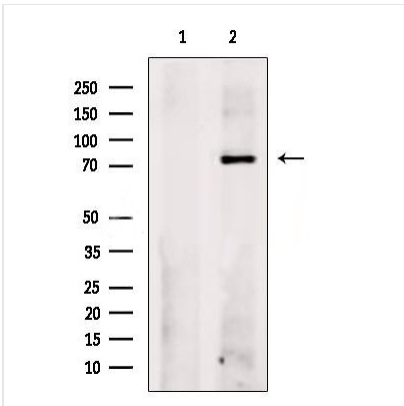
IF (Immunofluorescence)

AAA329034 staining A549 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25Å°C. Samples were then incubated with primary Ab(AAA329034) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37Å°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI (blue).



IHC (Immunohistochemistry)

AAA329034 at 1/100 staining Human gastric cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from VERO cells, using CBX4 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CBX4 antibody	Function: E3 SUMO-protein ligase which facilitates SUMO1 conjugation by UBE2I (PubMed:12679040). 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:22825850).Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development (PubMed:12167701, PubMed:19636380, PubMed:21282530). PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility (PubMed:12167701, PubMed:19636380, PubMed:21282530). Binds to histone H3 trimethylated at 'Lys-9' (H3K9me3) (By similarity). Plays a role in the lineage differentiation of the germ layers in embryonic development (By similarity). Post Translational Modifications: Phosphorylated on Thr-497 by HIPK2 upon DNA damage. This phosphorylation stimulates E3 SUMO-protein ligase activity and promotes sumoylation on Lys-494, as well as sumoylation of other target proteins, such as HNRNPK. Subcellular 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 Specificity: Ubiquitous. Subunit Structure: Interacts with histone H3-K9Me3 (By similarity). Interacts with CHTOP (By similarity). Component of a PRC1-like complex (PubMed:12167701, PubMed:19636380, PubMed:21282530). The composition of the PRC1 complex differs between the PRC1 complex in pluripotent embryonic stem cells containing RNF2, CBX7 and PCGF2, and the PRC1 complex in differentiating cells containing RNF2, CBX2, CBX4 and BMI1 (By similarity). Self-associates (PubMed:21282530). Interacts with SUV39H1 and HIPK2 (PubMed:12101246, PubMed:17018294). Interacts with CSNK2B (PubMed:21282530). May interact with HIST2H3A, HIST1H3A and RNF2 (PubMed:18927235). Interacts with SUMO1P1/SUMO5 (PubMed:27211601). Similarity: The polyhistidine repeat may act as a targeting signal to nuclear speckles.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	55770830
NCBI GeneID	8535
NCBI Accession #	NP_003646
NCBI GenBank Nucleotide #	NP_003646.2
UniProt Accession #	O00257
Molecular Weight	Observed Molecular Weight: (Observed)61kD. Predicted Molecular Weight: (Calculated)61kDa.
NCBI Official Full Name	E3 SUMO-protein ligase CBX4
NCBI Official Synonym Full Names	chromobox 4
NCBI Official Symbol	CBX4
NCBI Official Synonym Symbols	PC2; NBP16
NCBI Protein Information	E3 SUMO-protein ligase CBX4
UniProt Protein Name	E3 SUMO-protein ligase CBX4
UniProt Gene Name	CBX4
UniProt Synonym Gene Names	Pc2; hPc2
UniProt Entry Name	CBX4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cbx4-antibody-elisa/329034>