

Rabbit CBX5 Polyclonal Antibody | anti-CBX5 antibody

CBX5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA304512	Rabbit	Human, Mouse, Rat	Chromatin Immunoprecipitation, Immunoprecipitation, Immunoprecipitation, Immunofluorescence, Immunohistochemistry, Western Blot

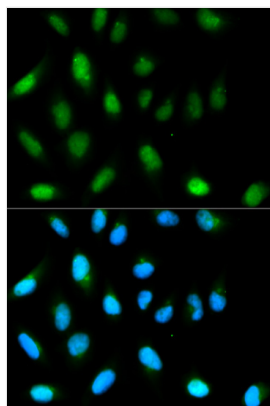
PRODUCT SYNONYMS

CBX5; Polyclonal Antibody; CBX5 Antibody; HP1; HP1A; anti-CBX5 antibody

PRODUCT SPECIFICATIONS

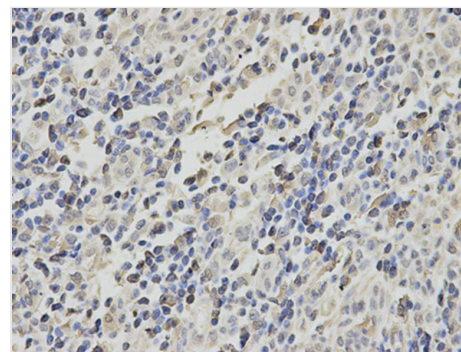
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of total CBX5 protein.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	191
Applicable Applications for anti-CBX5 antibody	ChIP (Chromatin immunoprecipitation), IP (Immunoprecipitation), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human CBX5.
Target Name	CBX5
Preparation and Storage	Store at -20 degree C

IMAGES



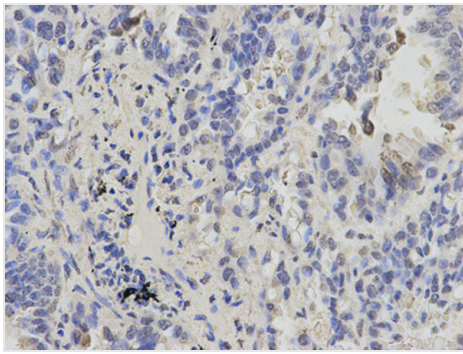
IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cell using CBX5 antibody. Blue: DAPI for nuclear staining.

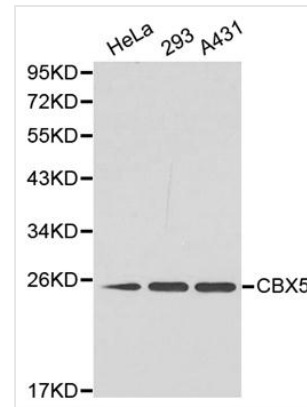


IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human stomach cancer using CBX5 antibody at dilution of 1:200 (400x lens).



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human lung cancer using CBX5 antibody at dilution of 1:200 (400x lens).



WB (Western Blot)
Western blot analysis of extracts of various cell lines, using CBX5 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CBX5 antibody

Heterochromatin protein 1 (HP1) is a family of heterochromatic adaptor molecules involved in both gene silencing and higher order chromatin structure (1). All three HP1 family members (a, b, and g) are primarily associated with centromeric heterochromatin; however, HP1b and g also localize to euchromatic sites in the genome (2,3). HP1 proteins are approximately 25 kDa in size and contain a conserved amino-terminal chromodomain, followed by a variable hinge region and a conserved carboxy-terminal chromoshadow domain. The chromodomain facilitates binding to histone H3 tri-methylated at Lys9, a histone "mark" closely associated with centromeric heterochromatin (4,5). The variable hinge region binds both RNA and DNA in a sequence-independent manner (6). The chromoshadow domain mediates the dimerization of HP1 proteins, in addition to binding multiple proteins implicated in gene silencing and heterochromatin formation, including the SUV39H histone methyltransferase, the DNMT1 and DNMT3a DNA methyltransferases, and the p150 subunit of chromatin-assembly factor-1 (CAF1) (7-9). In addition to contributing to heterochromatin formation and propagation, HP1 and SUV39H are also found complexed with retinoblastoma (Rb) and E2F6 proteins, both of which function to repress euchromatic gene transcription in quiescent cells (10,11). HP1 proteins are subject to multiple types of post-translational modifications, including phosphorylation, acetylation, methylation, ubiquitination, and sumoylation, suggesting multiple means of regulation (12-14).

Product Categories/Family for anti-CBX5 antibody

Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	188035908
NCBI GeneID	23468
NCBI Accession #	NP_001120793.1
NCBI GenBank Nucleotide #	NM_001127321.1
UniProt Accession #	P45973; B2R8T9
Molecular Weight	22,225 Da
NCBI Official Full Name	chromobox protein homolog 5
NCBI Official Synonym Full Names	chromobox homolog 5
NCBI Official Symbol	CBX5
NCBI Official Synonym Symbols	HP1; HP1A; HEL25
NCBI Protein Information	chromobox protein homolog 5
UniProt Protein Name	Chromobox protein homolog 5
UniProt Gene Name	CBX5

UniProt Synonym Gene Names	HP1A; HP1 alpha
UniProt Entry Name	CBX5_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/cbx5-antibody-chromatin-immunoprecipitation-immunoprecipitation-immunofluorescence-immunohistochemistry-western-blot-elisa/304512>