

Rabbit CBX1 Polyclonal Antibody | anti-CBX1 antibody

CBX1/HP1 beta Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31205	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%)	ELISA

PRODUCT SYNONYMS

CBX1; Polyclonal Antibody; CBX1/HP1 beta Antibody; CBX 1; CBX; Cbx1; CBX1_HUMAN; Chromobox 1; Chromobox homolog 1 (HP1 beta homolog Drosophila); chromobox homolog 1; Chromobox protein homolog 1; Drosophila HP1 beta; Heterochromatin protein 1 beta; Heterochromatin protein 1 homolog beta; Heterochromatin protein p25; heterochromatin protein p25 beta; HP1 beta; HP1 beta homolog; HP1 beta homolog Drosophila; HP1; Drosophila. homolog of; beta; HP1beta; HP1Hs beta; HP1Hsbeta; Human heterochromatin protein p25 mRNA complete cds; M31; MOD 1; MOD1; Modifier 1 protein; p25beta; anti-CBX1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	CBX1 / HP1 beta Antibody detects endogenous levels of total CBX1 / HP1 beta.
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	185
Applicable Applications for anti-CBX1 antibody	ELISA
Application Notes	IF: 1:100-1:500 ICC: 1:100-1:500 WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human CBX1 / HP1 beta, 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.

IMAGES



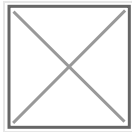
IF (Immunofluorescence)

AAA31205 staining HeLa 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 25°C. Samples were then incubated with primary Ab(AAA31205 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°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-Paraffin)

AAA31205 at 1/100 staining Human pancreatic cancer 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 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



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IHC (Immunohistochemistry-Paraffin)

AAA31205 at 1/100 staining Human kidney cancer 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 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31205 at 1/100 staining Human ovarian 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 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from Hybridoma cells, using CBX1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CBX1 antibody	Function: Component of heterochromatin. Recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. Interaction with lamin B receptor (LBR) can contribute to the association of the heterochromatin with the inner nuclear membrane.
	Post Translational Modifications: Not phosphorylated. Ubiquitinated.
	Subcellular Location: Nucleus. Note: Unassociated with chromosomes during mitosis.
	Tissue Specificity: Expressed in all adult and embryonic tissues.
	Subunit Structure: Homodimer (By similarity). Interacts directly with CHAF1A, EMSY, LBR, TIF1/TIF1A and TRIM28/TIF1B PXVXL motif via the chromoshadow domain (PubMed:14651845, PubMed:16615912). Interacts directly with histone H3 methylated at 'Lys-9' via the chromo domain (By similarity). Interacts with SUV39H1 and SETDB1, KMT5B and KMT5C (PubMed:10202156, PubMed:15899859). Interacts with PRDM6 (By similarity). Interacts with POGZ (PubMed:20850016, PubMed:20562864). Interacts with CHAMP1 (PubMed:20850016). Interacts with INCENP (PubMed:21346195). Interacts with SGO1; the CBX1 homodimer binds to one molecule of SGO1 (PubMed:21346195). Interacts with LRIF1 (via PxVxL motif) (PubMed:23542155).

NCBI AND UNIPROT INFORMATION

NCBI GI #	48428808
NCBI GeneID	10951
UniProt Accession #	P83916

Molecular Weight	Observed Molecular Weight: (Observed)21kD. Predicted Molecular Weight: (Calculated)21kDa.
NCBI Official Full Name	Chromobox protein homolog 1
NCBI Official Synonym Full Names	chromobox 1
NCBI Official Symbol	CBX1
NCBI Official Synonym Symbols	CBX; M31; MOD1; p25beta; HP1-BETA; HP1Hsbeta; HP1Hs-beta
NCBI Protein Information	chromobox protein homolog 1
UniProt Protein Name	Chromobox protein homolog 1
UniProt Gene Name	CBX1
UniProt Synonym Gene Names	CBX; HP1 beta
UniProt Entry Name	CBX1_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/cbx1-antibody-elisa/31205>