

Rabbit anti-Human HP1 Alpha/CBX5 Polyclonal Antibody | anti-HP1Alpha/CBX5 antibody

Anti-HP1 Alpha/CBX5 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA258973	Rabbit	Human	Immunohistochemistry, Immunoprecipitation, Western Blot

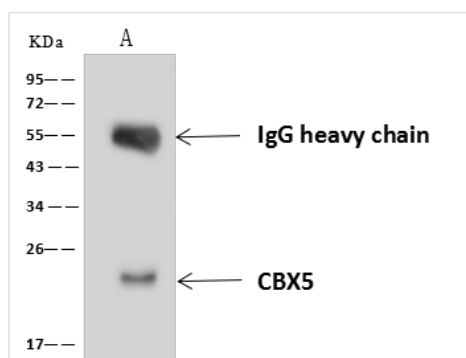
PRODUCT SYNONYMS

HP1 Alpha/CBX5; Polyclonal Antibody; Anti-HP1 Alpha/CBX5 Antibody; Rabbit Polyclonal; chromobox homolog 5; Anti-HEL25 Antibody; Anti-HP1 Antibody; Anti-HP1A Antibody; anti-HP1Alpha/CBX5 antibody

PRODUCT SPECIFICATIONS

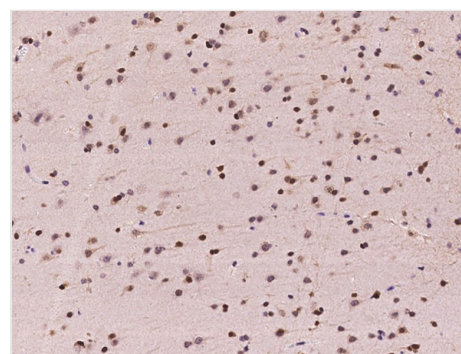
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human HP1 Alpha/CBX5
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-HP1Alpha/CBX5 antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), WB (Western Blot)
Immunogen	E coli-derived Human HP1 Alpha/CBX5 fragment
Preparation	Produced in rabbits immunized with E coli-derived Human HP1 Alpha/CBX5 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



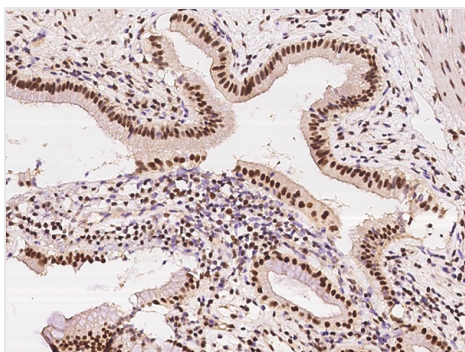
IP (Immunoprecipitation)

CBX5 was immunoprecipitated using: Lane A: 0.5 mg HeLa A431 Whole Cell Lysate 4 uL anti-CBX5 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-CBX5 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 24 kDa. Observed band size: 22 kDa.



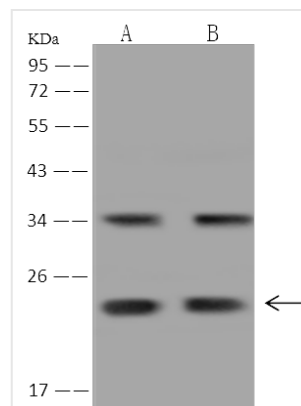
IHC (Immunohistochemistry)

Immunochemical staining of human CBX5 in human brain with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human CBX5 in human gallbladder with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-CBX5 rabbit polyclonal antibody at 1:500 dilution Lane A: Hela Whole Cell Lysate Lane B: A431 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 22 kDa Observed band size: 24 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-HP1Alpha/CBX5 antibody

Chromobox 5 (CBX5) is a putative target of CDC7 and genetic silencing of CBX5 also results in increased Endo180 and collagen uptake. Finally, CRISPR-mediated activation of Endo180 expression results in increased collagen uptake, suggesting that CDC7 regulates collagen internalization through increased Endo180 expression. Targeting the regulatory elements of the collagen degradative machinery may be a useful therapeutic approach in diseases of fibrosis or malignancy. The three members of the human heterochromatin protein 1 (HP1) family of proteins, HP1alpha, HP1beta, and HP1gamma, are involved in chromatin packing and epigenetic gene regulation. HP1alpha is encoded from the CBX5 gene and is a suppressor of metastasis. CBX5 is down-regulated at the transcriptional and protein level in metastatic compared to non-metastatic breast cancer. CBX5 shares a bi-directional promoter structure with the hnRNPA1 gene. But whereas CBX5 expression is down-regulated in metastatic cells, hnRNPA1 expression is constant. Heterochromatin protein 1alpha (HP1alpha) encoded from the CBX5-gene is an evolutionarily conserved protein that binds histone H3 di- or tri-methylated at position lysine 9 (H3K9me2/3), a hallmark for heterochromatin, and has an essential role in forming higher order chromatin structures. HP1alpha has diverse functions in heterochromatin formation, gene regulation, and mitotic progression, and forms complex networks of gene, RNA, and protein interactions. Emerging evidence has shown that HP1alpha serves a unique biological role in breast cancer related processes and in particular for epigenetic control mechanisms involved in aberrant cell proliferation and metastasis.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/hp1-alpha-cbx5-antibody-immunohistochemistry-immunoprecipitation-western-blot-elisa/258973>