

Rabbit anti-Human, Mouse HP1 Beta/CBX1 Polyclonal Antibody | anti-CBX1 antibody

Anti-HP1 Beta/CBX1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254336	Rabbit	Human, Mouse	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

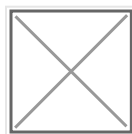
PRODUCT SYNONYMS

HP1 Beta/CBX1; Polyclonal Antibody; Anti-HP1 Beta/CBX1 Antibody; Rabbit Polyclonal; HP1 beta/CBX1 Antibody; Rabbit PAb; Antigen Affinity Purified; chromobox 1; Anti-CBX Antibody; Anti-HP1-BETA Antibody; Anti-HP1Hs-beta Antibody; Anti-HP1Hsbeta Antibody; Anti-M31 Antibody; Anti-MOD1 Antibody; Anti-p25beta Antibody; anti-CBX1 antibody

PRODUCT SPECIFICATIONS

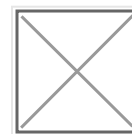
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human HP1 Beta/CBX1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-CBX1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the center region of the Human HP1 beta/CBX1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human HP1 beta/CBX1, 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)

ADA was immunoprecipitated using: Lane A: 0.5 mg Jurkat Whole Cell Lysate 4 uL anti-ADA rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-ADA 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: 41 kDa. Observed band size: 43 kDa.



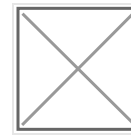
IF (Immunofluorescence)

Immunofluorescence staining of CBX1 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human CBX1 polyclonal antibody (dilution ratio 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Nucleus.



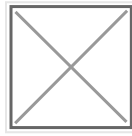
IHC (Immunohistochemistry)

Immunochemical staining CBX1 in mouse testis with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining CBX1 in human testis with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-CBX1 rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lane B: MCF7 Whole Cell Lysate Lane C: A431 Whole Cell Lysate Lane D: 293T 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: 21 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CBX1 antibody

Chromobox (CBX) family proteins are canonical components in polycomb repressive complexes 1 (PRC1), with epigenetic regulatory function and transcriptionally repressing target genes via chromatin modification. A plethora of studies have highlighted the function specifications among CBX family members in various cancer, including lung cancer, colon cancer and breast cancer. CBX1 exhibits oncogenic activities in hepatocellular carcinoma (HCC) and indicates poor outcomes. The expression of CBX1 was noticeably increased, at both mRNA and protein levels, in HCC tissues and cell lines, compared with the nontumorous ones. High CBX1 expression was significantly associated with larger tumor size, poor tumor differentiation and tumor vascular invasion. CBX1 functions as an oncogene and may serve as a potential prognostic biomarker in HCC.

NCBI AND UNIPROT INFORMATION

NCBI GI #	48428808
NCBI GeneID	10951
UniProt Accession #	P83916; P23197
Molecular Weight	185
NCBI Official Full Name	Chromobox protein homolog 1
NCBI Official Synonym Full Names	chromobox homolog 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; HP1 beta homolog; modifier 1 protein; heterochromatin protein 1-beta; heterochromatin protein p25 beta; heterochromatin protein 1 homolog beta; chromobox homolog 1 (HP1 beta homolog Drosophila)
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.

