



HP1 β Monoclonal Antibody

Catalog No	YP-Ab-01042
Isotype	IgG
Reactivity	Human;Mouse;Rat;Bovine;Chicken;Dog;Pig
Applications	WB
Gene Name	CBX1
Immunogen	Purified recombinant human HP1 β protein fragments expressed in E.coli.
Specificity	HP1 β Monoclonal Antibody detects endogenous levels of HP1 β protein.
Formulation	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	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; HP1 β
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Nucleus . Unassociated with chromosomes during mitosis.
Tissue Specificity	Expressed in all adult and embryonic tissues.
Function	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.,online information:Heterochromatin protein 1 entry, PTM:Not phosphorylated.,similarity:Contains 2 chromo domains.,subcellular location:Unassociated with chromosomes during mitosis.,subunit:Homodimer.



Interacts directly with CHAF1A, EMSY, LBR, TIF1/TIF1A and TRIM28/TIF1B PXVXL motif via the chromoshadow domain. Interacts directly with histone H3 methylated at 'Lys-9' via the chromo domain. Interacts with SUV39H1 and SETDB1, SUV420H1 and SUV420H2. Interacts with PRDM6.,tissue specificity:In all adult and embryonic tissues.,

Background

This gene encodes a highly conserved nonhistone protein, which is a member of the heterochromatin protein family . The protein is enriched in the heterochromatin and associated with centromeres. The protein has a single N-terminal chromodomain which can bind to histone proteins via methylated lysine residues, and a C-terminal chromo shadow-domain (CSD) which is responsible for the homodimerization and interaction with a number of chromatin-associated nonhistone proteins. The protein may play an important role in the epigenetic control of chromatin structure and gene expression. Several related pseudogenes are located on chromosomes 1, 3, and X. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008],

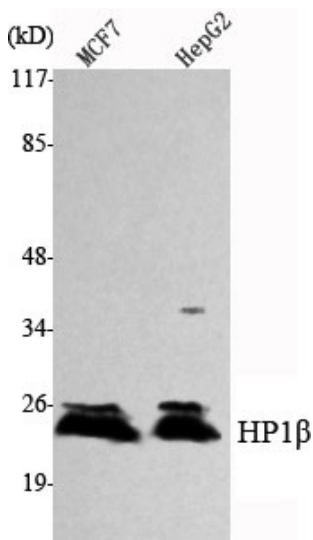
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis using HP1 β Monoclonal Antibody against MCF7, HepG2 cell lysate.