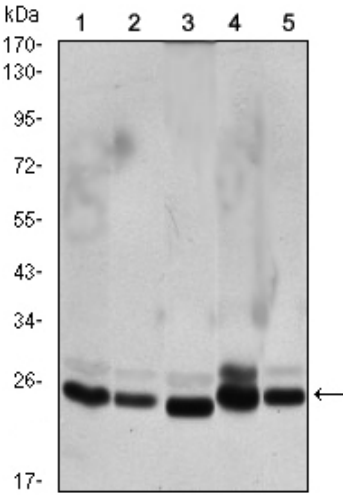
CBX1 Monoclonal Antibody

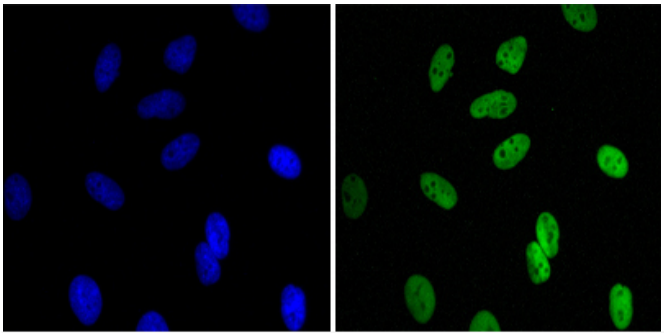
Catalog No	YP-Ab-00959
Isotype	IgG
Reactivity	Human;Monkey
Applications	WB;IF;FCM;ELISA
Gene Name	CBX1
Protein Name	Chromobox protein homolog 1
Immunogen	Purified recombinant fragment of human CBX1 expressed in E. Coli.
Specificity	CBX1 Monoclonal Antibody detects endogenous levels of CBX1 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CBX1; CBX; Chromobox protein homolog 1; HP1Hsbeta; Heterochromatin protein 1 homolog beta; HP1 beta; Heterochromatin protein p25; M31; Modifier 1 protein; p25beta
Observed Band	
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.

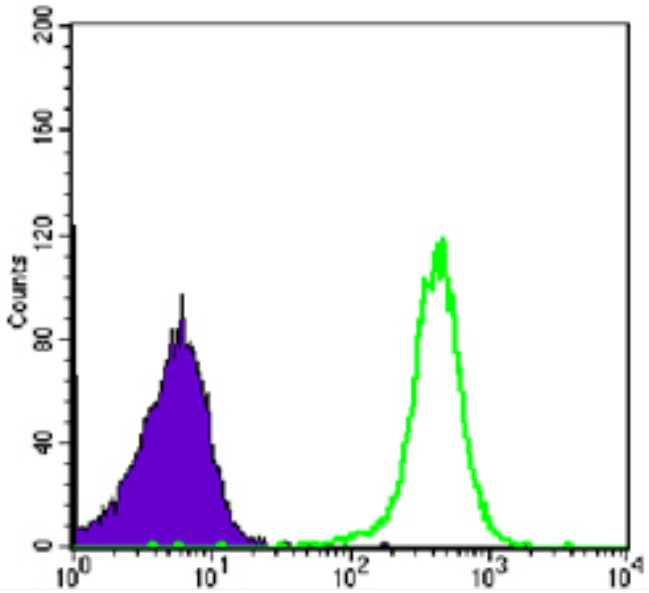
Products Images



Western Blot analysis using CBX1 Monoclonal Antibody against HeLa (1), COS7 (2), NIH/3T3 (3), A431 (4),and C6 (5) cell lysate.



Immunofluorescence analysis of Hela cells using CBX1 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.



Flow cytometric analysis of COS7 cells using CBX1 Monoclonal Antibody (green) and negative control (purple).