



HP-1 γ mouse Monoclonal Antibody(3B9)

Catalog No	YP-Ab-01175
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF
Gene Name	CBX3
Immunogen	Recombinant Protein of HP-1 γ
Specificity	The antibody detects endogenous HP-1 γ protein
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000,IHC-p 1:50-300. IF 1:50-200
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	CBX 3;CBX3;CBX3_HUMAN;Chromobox homolog 3 (HP1 gamma homolog; Drosophila);Chromobox homolog 3;Chromobox protein homolog 3;GAMMA;HECH;Heterochromatin like protein 1;Heterochromatin protein 1 homolog gamma;Heterochromatin protein HP1 gamma;HP1 gamma;HP1 gamma homolog;HP1Hs gamma;Modifier 2 protein;HP1 γ ;Chromobox protein homolog 3 (HECH) (Heterochromatin protein 1 homolog gamma) (HP1 gamma) (Modifier 2 protein);Chromobox protein homolog 3 (HECH;Modifier 2 protein)
Observed Band	24kD
Calculated Molecular Weight	24kD
Cell Pathway	Nucleus . Associates with euchromatin and is largely excluded from constitutive heterochromatin. May be associated with microtubules and mitotic poles during mitosis (Potential). .
Tissue Specificity	Bone marrow,Brain,Cajal-Retzius cell,Epithelium,Liver,Placenta,
Function	function:Seems to be involved in transcriptional silencing in heterochromatin-like complexes. Recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. May contribute to the association of the heterochromatin with the inner nuclear membrane through its interaction with lamin B receptor (LBR). Involved in the formation of functional kinetochore



through interaction with MIS12 complex proteins.,PTM:Phosphorylated by PIM1. Phosphorylated during interphase and possibly hyper-phosphorylated during mitosis.,similarity:Contains 2 chromo domains.,subcellular location:Associates with euchromatin and is largely excluded from constitutive heterochromatin. May be associated with microtubules and mitotic poles during mitosis.,subunit:Binds directly to CHAF1A. Interacts with histone H3 methylated at 'Lys-9'. Part of the E2F6.com-1 complex in G0 phase composed of E2F

Background

At the nuclear envelope, the nuclear lamina and heterochromatin are adjacent to the inner nuclear membrane. The protein encoded by this gene binds DNA and is a component of heterochromatin. This protein also can bind lamin B receptor, an integral membrane protein found in the inner nuclear membrane. The dual binding functions of the encoded protein may explain the association of heterochromatin with the inner nuclear membrane. This protein binds histone H3 tails methylated at Lys-9 sites. This protein is also recruited to sites of ultraviolet-induced DNA damage and double-strand breaks. Two transcript variants encoding the same protein but differing in the 5' UTR, have been found for this gene.[provided by RefSeq, Mar 2011],

matters needing attention

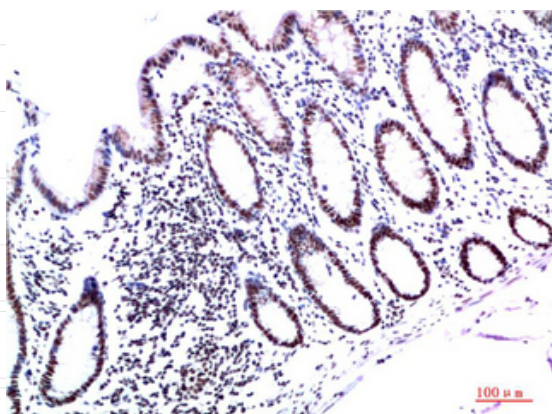
Avoid repeated freezing and thawing!

Usage suggestions

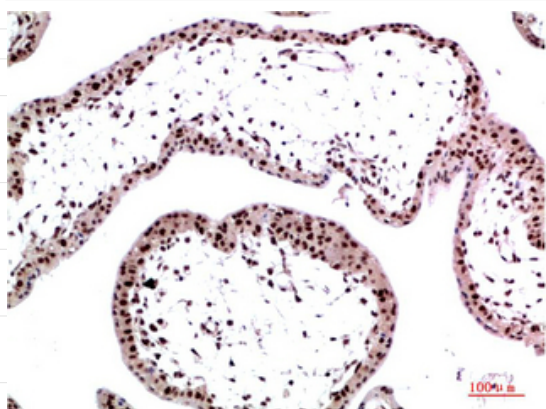
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



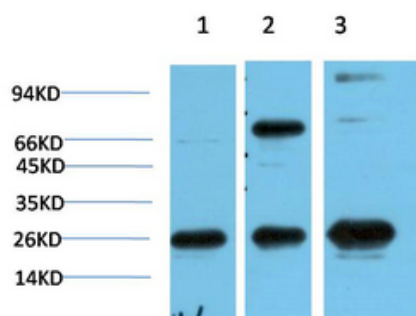
Products Images



Immunohistochemical analysis of paraffin-embedded Human Colon Carcinoma Tissue using HP-1 γ Mouse mAb diluted at 1:200



Immunohistochemical analysis of paraffin-embedded Human Placenta Tissue using HP-1 γ Mouse mAb diluted at 1:200



Western blot analysis of 1) Hela Cell Lysate, 2) 3T3 Cell Lysate, 3) PC12 Cell Lysate using HP-1 γ Mouse mAb diluted at 1:1000.