

# HP-1 $\gamma$ mouse Monoclonal Antibody(3B9)

Catalog # AP63828

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC
<b>Primary Accession</b>	<a href="#">Q13185</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Calculated MW</b>	20811

## Additional Information

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<b>Gene ID</b>	11335
<b>Other Names</b>	Chromobox protein homolog 3 (HECH) (Heterochromatin protein 1 homolog gamma) (HP1 gamma) (Modifier 2 protein)
<b>Dilution</b>	WB~~WB 1:500-2000,IHC-p 1:50-300 IHC-P~~WB 1:500-2000,IHC-p 1:50-300 IF~~1:50~200 ICC~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

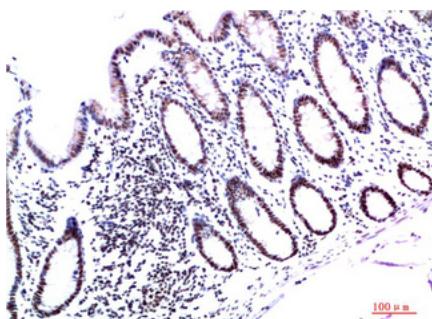
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<b>Name</b>	CBX3
<b>Function</b>	Seems to be involved in transcriptional silencing in heterochromatin-like complexes. Recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. May contribute to the association of 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. Contributes to the conversion of local chromatin to a heterochromatin-like repressive state through H3 'Lys-9' trimethylation, mediates the recruitment of the methyltransferases SUV39H1 and/or SUV39H2 by the PER complex to the E-box elements of the circadian target genes such as PER2 itself or PER1. Mediates the recruitment of NIPBL to sites of DNA damage at double-strand breaks (DSBs) (PubMed: <a href="#">28167679</a> ).
<b>Cellular Location</b>	Nucleus. Note=Associates with euchromatin and is largely excluded from constitutive heterochromatin. May be associated with microtubules and mitotic poles during mitosis (Potential).

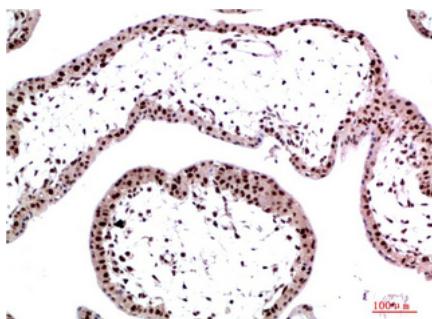
## Background

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. Contributes to the conversion of local chromatin to a heterochromatin-like repressive state through H3 'Lys-9' trimethylation, mediates the recruitment of the methyltransferases SUV39H1 and/or SUV39H2 by the PER complex to the E-box elements of the circadian target genes such as PER2 itself or PER1. Mediates the recruitment of NIPBL to sites of DNA damage at double-strand breaks (DSBs) (PubMed:[28167679](https://pubmed.ncbi.nlm.nih.gov/28167679/)).

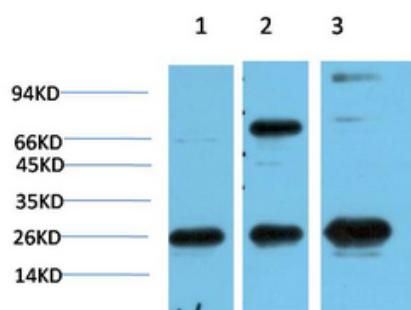
## Images



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



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



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.