

**HP-1γ mouse Monoclonal Antibody(3B9)**  
**Catalog # AP63828****Specification****HP-1γ mouse Monoclonal Antibody(3B9) - Product Information**

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

**HP-1γ mouse Monoclonal Antibody(3B9) - Additional Information****Gene ID** 11335**Other Names**

Chromobox protein homolog 3 (HECH) (Heterochromatin protein 1 homolog gamma) (HP1 gamma) (Modifier 2 protein)

**Dilution**

WB~~WB 1:500-2000,IHC-p 1:50-300  
IHC-P~~N/A

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**HP-1γ mouse Monoclonal Antibody(3B9) - Protein Information****Name** CBX3**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. 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="http://www.uniprot.org/citations/28167679" target="\_blank">28167679</a>).

**Cellular Location**

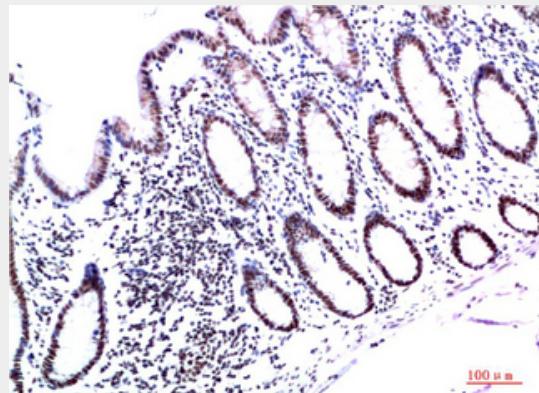
Nucleus. Note=Associates with euchromatin and is largely excluded from constitutive heterochromatin. May be associated with microtubules and mitotic poles during mitosis (Potential).

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

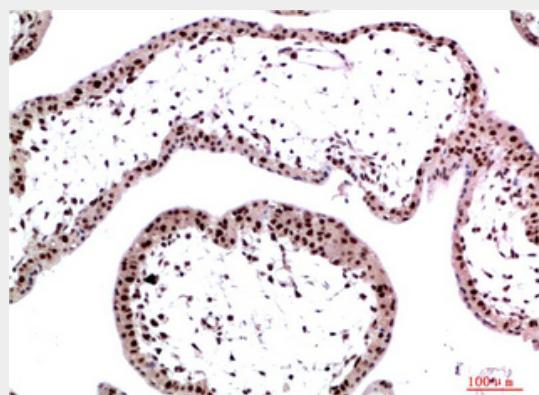
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

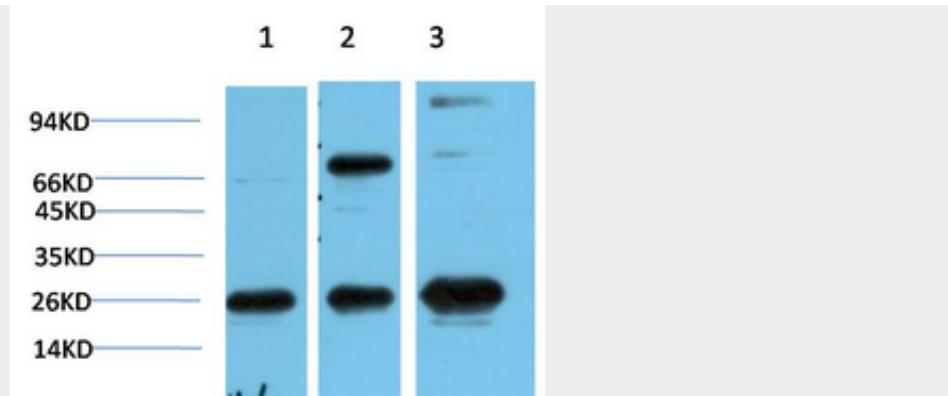
## HP-1 $\gamma$ mouse Monoclonal Antibody(3B9) - Images



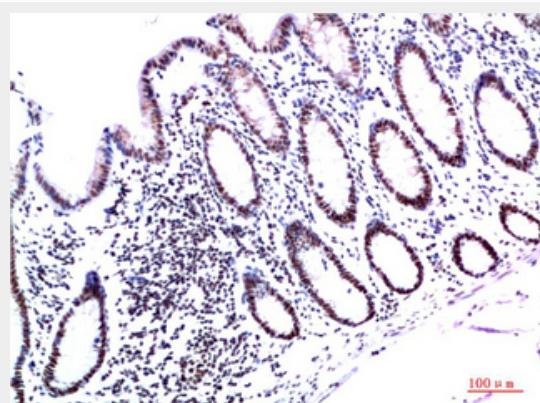
Immunohistochemical analysis of paraffin-embedded Human Colon Carcinoma Tissue using HP-1 $\gamma$  Mouse mAb diluted at 1:200



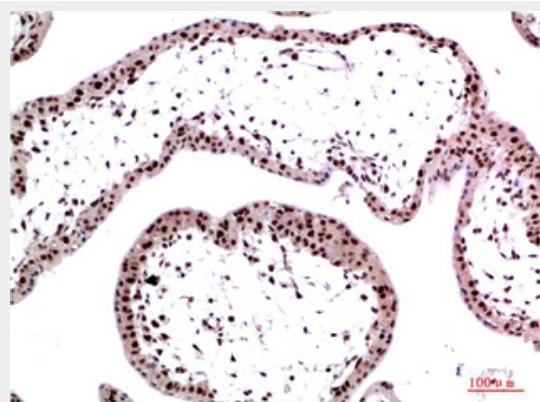
Immunohistochemical analysis of paraffin-embedded Human Placenta Tissue using HP-1 $\gamma$  Mouse mAb diluted at 1:200



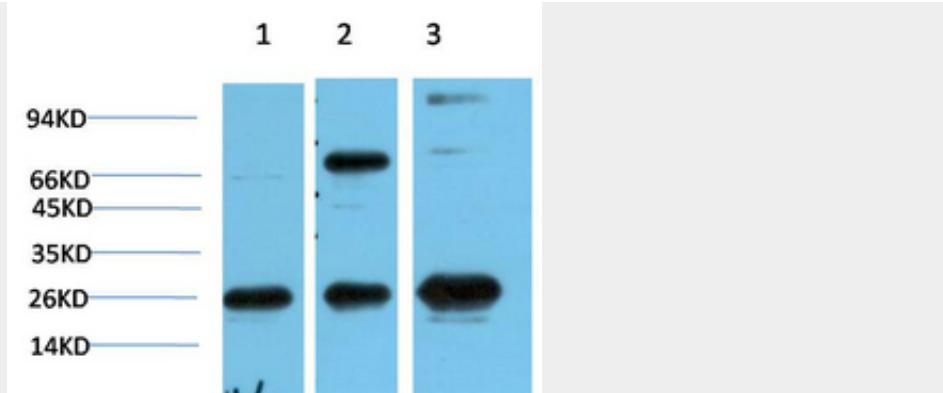
Western blot analysis of 1) HeLa Cell Lysate, 2) 3T3 Cell Lysate, 3) PC12 Cell Lysate using HP-1y Mouse mAb diluted at 1:1000.



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-1γ Mouse mAb diluted at 1:1000.

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