

**HP1 alpha Antibody**  
**Rabbit mAb**  
**Catalog # AP90505****Specification**

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**HP1 alpha Antibody - Product Information**

Application	WB, IHC, FC, ICC, IP
Primary Accession	<a href="#">P45973</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
CBX5; Antigen p25; Heterochromatin protein 1 homolog alpha; HP1 alpha;	

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	22225 Da

**HP1 alpha Antibody - Additional Information**

Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human HP1 alpha
Description	Component of heterochromatin that recognizes and binds histone H3 tails methylated at 'Lys-9' (H3K9me), leading to epigenetic repression. In contrast, it is excluded from chromatin when 'Tyr-41' of histone H3 is phosphorylated (H3Y41ph). Can interact with lamin-B receptor (LBR). This interaction can contribute to the association of the heterochromatin with the inner nuclear membrane. Involved in the formation of functional kinetochore through interaction with MIS12 complex proteins.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**HP1 alpha Antibody - Protein Information****Name** CBX5

## Synonyms HP1A

### Function

Component of heterochromatin that recognizes and binds histone H3 tails methylated at 'Lys-9' (H3K9me), leading to epigenetic repression. In contrast, it is excluded from chromatin when 'Tyr-41' of histone H3 is phosphorylated (H3Y41ph) (PubMed:<a href="http://www.uniprot.org/citations/19783980" target="\_blank">19783980</a>). May contribute to the association of heterochromatin with the inner nuclear membrane by interactions with the lamin-B receptor (LBR) (PubMed:<a href="http://www.uniprot.org/citations/19783980" target="\_blank">19783980</a>). Involved in the formation of kinetochore through interaction with the MIS12 complex subunit NSL1 (PubMed:<a href="http://www.uniprot.org/citations/19783980" target="\_blank">19783980</a>, PubMed:<a href="http://www.uniprot.org/citations/20231385" target="\_blank">20231385</a>). Required for the formation of the inner centromere (PubMed:<a href="http://www.uniprot.org/citations/20231385" target="\_blank">20231385</a>).

### Cellular Location

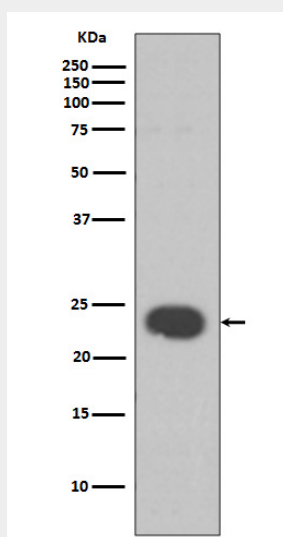
Nucleus. Chromosome. Chromosome, centromere. Note=Colocalizes with HNRNPU in the nucleus (PubMed:19617346). Component of centromeric and pericentromeric heterochromatin. Associates with chromosomes during mitosis. Associates specifically with chromatin during metaphase and anaphase (PubMed:19617346). Localizes to sites of DNA damage (PubMed:28977666)

## HP1 alpha Antibody - 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](#)

## HP1 alpha Antibody - Images



Western blot analysis of HP1 alpha expression in SH-SY5Y cell lysate.