

**Goat anti-CBX5 / HP1-Alpha, biotinylated Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF4353a****Specification**

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**Goat anti-CBX5 / HP1-Alpha, biotinylated Antibody - Product Information**

Application	<b>WB, Pep-ELISA</b>
Primary Accession	<a href="#">P45973</a>
Other Accession	<a href="#">NP_036249.1</a>
Reactivity	<b>Human, Mouse, Dog</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>22225</b>

**Goat anti-CBX5 / HP1-Alpha, biotinylated Antibody - Additional Information****Gene ID** 23468**Other Names**

CBX5; chromobox homolog 5; HEL25; HP1; HP1A; HP1 alpha homolog; HP1-ALPHA; HP1Hs alpha; antigen p25; chromobox homolog 5 (HP1 alpha homolog, Drosophila); epididymis luminal protein 25; heterochromatin protein 1 homolog alpha; heterochromatin protein 1-alp

**Dilution**

WB~~1:1000  
Pep-ELISA~~N/A

**Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

**Immunogen**

Reported variants represent identical protein: NP\_036249.1, NP\_001120793.1, NP\_001120794.1

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat anti-CBX5 / HP1-Alpha, biotinylated Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat anti-CBX5 / HP1-Alpha, biotinylated 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)

**Goat anti-CBX5 / HP1-Alpha, biotinylated 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](#)

**Goat anti-CBX5 / HP1-Alpha, biotinylated Antibody - Images**