

# Goat anti-CBX5 / HP1-Alpha, biotinylated Antibody

Peptide-affinity purified goat antibody Catalog # AF4353a

#### **Product Information**

**Application** WB, Pep-ELISA

 Primary Accession
 P45973

 Other Accession
 NP\_036249.1

**Reactivity** Human, Mouse, Dog

HostGoatClonalityPolyclonalClone NamesCBX5Calculated MW22225

### **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.

## **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:19783980). May contribute to the association of heterochromatin with the inner nuclear membrane by interactions with the lamin-B receptor (LBR) (PubMed:19783980). Involved in the formation of kinetochore through interaction with the MIS12 complex subunit NSL1 (PubMed:19783980, PubMed:20231385). Required for the formation of the inner centromere (PubMed:20231385).

#### **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)

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