

# Anti-CBX3 / HP1 Gamma Antibody (Internal), Biotinylated

Catalog # AF4280a

### **Specification**

# Anti-CBX3 / HP1 Gamma Antibody (Internal), Biotinylated - Product Information

Application WB, IHC, E
Primary Accession 013185

Other Accession <u>11335</u>, <u>NP\_009207.2</u>, <u>12417</u>, <u>297093</u>

Reactivity Human, Mouse

Predicted Human, Mouse, Rat, Dog

Calculated MW 20811

# Anti-CBX3 / HP1 Gamma Antibody (Internal), Biotinylated - Additional Information

#### Gene ID 11335

#### **Other Names**

gene regulation; chromobox; Transcriptional regulator

# **Target/Specificity**

No cross-reactivity expected with HP1-alpha and HP1-beta. Reported variants represent identical protein: NP 009207.2, NP 057671.2

# **Dilution**

WB~~1:1000 IHC~~1:100~500

 $E\sim\sim N/A$ 

#### 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**

Anti-CBX3 / HP1 Gamma Antibody (Internal), Biotinylated is for research use only and not for use in diagnostic or therapeutic procedures.

# Anti-CBX3 / HP1 Gamma Antibody (Internal), Biotinylated - 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**

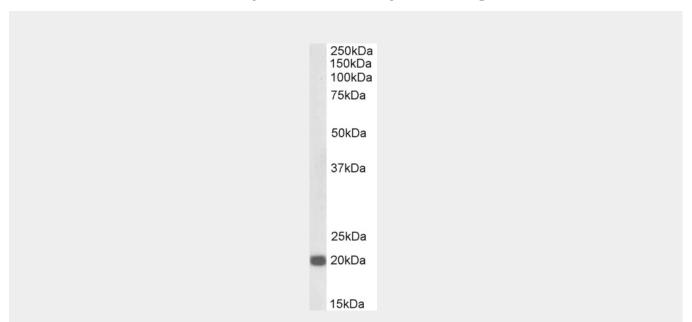
Nucleus. Note=Associates with euchromatin and is largely excluded from constitutive heterochromatin. May be associated with microtubules and mitotic poles during mitosis (Potential).

## Anti-CBX3 / HP1 Gamma Antibody (Internal), Biotinylated - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# Anti-CBX3 / HP1 Gamma Antibody (Internal), Biotinylated - Images



Biotinylated antibody (0.3  $\mu$ g/ml) staining of NIH3T3 lysate (35  $\mu$ g protein in RIPA buffer), exactly mirroring its parental non-biotinylated product. Primary incubation was 1 hour. Detected by chemiluminescence, using streptavidin-HRP and using NAP blocker as a substitute for skimmed milk.