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

Catalog # AF4280a

Specification

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

Application	**WB**
Primary Accession	Q13185
Other Accession	11335, NP_009207.2, 12417, 297093
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

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:28167679).

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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
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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

Biotinylated antibody (0.3 µg/ml) staining of NIH3T3 lysate (35 µg 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.