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

Catalog # AF4280a

Product Information

Application	WB, IHC, E
Primary Accession	Q13185
Other Accession	11335, NP_009207.2, 12417, 297093
Reactivity	Human, Mouse
Predicted	Human, Mouse, Rat, Dog
Calculated MW	20811

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~~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.

Protein Information

Name	CBX3
Function	Component of heterochromatin, which recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression (PubMed:11242053). Also recognizes and binds histone H1.4 methylated at 'Lys-26' (H1.4K26me) (PubMed:16127177). Excluded from chromatin when histone H1.4 is Simultaneously methylated at Lys-26 (H1.4K26me) and phosphorylated at Ser-27 (H1.4S27Ph) (PubMed:16127177). Involved in the formation of functional kinetochore through interaction with MIS12 complex proteins (PubMed:15502821). 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 (By similarity). Mediates the recruitment of NIPBL to sites of DNA damage at double-strand breaks (DSBs) (PubMed:28167679).

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).

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.

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