

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

Catalog # AF4280a

Product Information

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| 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

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| 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

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| 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). |
| 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'.