

HP1 gamma Antibody

Rabbit mAb

Catalog # AP91462

Product Information

Application	WB, IHC, FC, IP
Primary Accession	Q13185
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	Chromobox protein homolog 3; HECH; Heterochromatin protein 1 homolog gamma; HP1 gamma; Modifier 2 protein; CBX3; HP1 gamma;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	20811

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 IP 1:50 FC 1:100
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human HP1 gamma
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

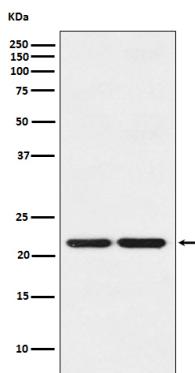
Name	CBX3
Function	Component of heterochromatin, which recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression (PubMed: 11242053). Also recognizes and binds histone H1.4 methylated at 'Lys-26' (H1.4K26me) (PubMed: 16127177). Excluded from chromatin when histone H1.4 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](https://pubmed.ncbi.nlm.nih.gov/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



Western blot analysis of HP1 gamma expression in (1) HeLa cell lysate; (2) NIH/3T3 cell lysate.

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