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# CBX3 / HP1 Gamma Antibody (Internal)

**Goat Polyclonal Antibody**
**Catalog # ALS12246**

## Specification

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

| | |
|---|---|
| Application | **IHC, WB** |
| Primary Accession | Q13185 |
| Reactivity | **Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Horse, Bovine, Dog** |
| Host | **Goat** |
| Clonality | **Polyclonal** |
| Calculated MW | **21kDa KDa** |

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

**Gene ID** 11335

**Other Names**
Chromobox protein homolog 3, HECH, Heterochromatin protein 1 homolog gamma, HP1 gamma, Modifier 2 protein, CBX3

**Target/Specificity**
Human CBX3. No cross-reactivity expected with HP1-alpha and HP1-beta. NP_009207.2 and NP_057671.2 represent same protein.

**Reconstitution & Storage**
Store at -20°C. Minimize freezing and thawing.

**Precautions**
CBX3 / HP1 Gamma Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

### CBX3 / HP1 Gamma Antibody (Internal) - 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>).

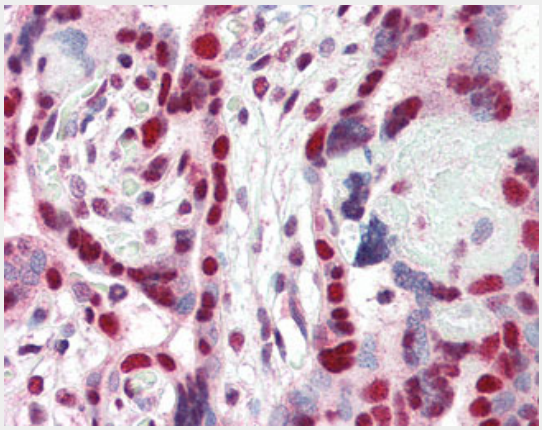
**Cellular Location**
Nucleus. Note=Associates with euchromatin and is largely excluded from constitutive heterochromatin. May be associated with microtubules and mitotic poles during mitosis (Potential).

## CBX3 / HP1 Gamma Antibody (Internal) - Protocols

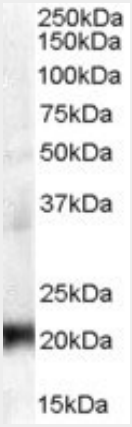
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## CBX3 / HP1 Gamma Antibody (Internal) - Images



Anti-CBX3 antibody IHC of human placenta.




(0.3 ug/ml) Staining of A431 lysate (35 ug protein in RIPA buffer).

## CBX3 / HP1 Gamma Antibody (Internal) - Background

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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 mehtyltransferases SUV39H1 and/or SUV39H2 by the PER complex to the E-box elements of the circadian target genes such as PER2 itself or PER1.

**CBX3 / HP1 Gamma Antibody (Internal) - References**

Ye Q.,et al.J. Biol. Chem. 271:14653-14656(1996).
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Koike N.,et al.FEBS Lett. 467:17-21(2000).
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Lubec G.,et al.Submitted (MAR-2007) to UniProtKB.