

# HP1 gamma Antibody

Rabbit mAb Catalog # AP91462

### **Product Information**

**Application** WB, IHC, FC, IP

Primary Accession <u>Q13185</u>

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;

IsotypeRabbit IgGHostRabbitCalculated MW20811

#### **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** 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

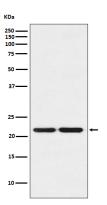
kinetochore through interaction with MIS12 complex proteins. Contributes to the conversion of local chromatin to a heterochromatin-like repressive state

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).

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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