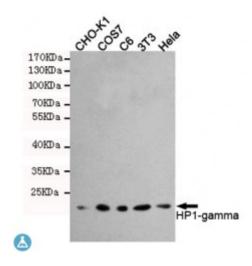


Anti-HP1-gamma antibody



Description Mouse monoclonal to HP1-gamma.

Model STJ99038

Host Mouse

Reactivity Hamster, Human, Mouse, Rat, Simian

Applications ELISA, WB

Immunogen Purified recombinant human HP1-gamma protein fragments expressed in

E.coli.

Gene ID <u>11335</u>

Gene Symbol <u>CBX3</u>

Dilution range WB 1:500-2000ELISA 1:10000-20000

Specificity This antibody detects endogenous levels of HP1-gamma and does not cross-

react with related proteins.

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Clone ID 5G10-F7-A12

Note For Research Use Only (RUO).

Protein Name Chromobox protein homolog 3 HECH Heterochromatin protein 1 homolog

gamma HP1 gamma Modifier 2 protein

Molecular Weight 22kDa

Clonality Monoclonal

Conjugation Unconjugated

Isotype IgG1

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Concentration 1 mg/ml

Storage Instruction Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:1553OMIM:604477</u>

Alternative Names Chromobox protein homolog 3 HECH Heterochromatin protein 1 homolog

gamma HP1 gamma Modifier 2 protein

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.

Cellular Localization Nucleus. Associates with euchromatin and is largely excluded from

constitutive heterochromatin. May be associated with microtubules and

mitotic poles during mitosis (Potential).

Post-translational Phosphorylated by PIM1. Phosphorylated during interphase and possibly

Modifications hyper-phosphorylated during mitosis.

St John's Laboratory Ltd

F +44 (0)207 681 2580

T +44 (0)208 223 3081

W http://www.stjohnslabs.com/ E info@stjohnslabs.com