



## Rabbit Anti-Phospho-HP1 gamma (Ser97+Ser99) antibody

SL4598R

<b>Product Name:</b>	Phospho-HP1 gamma (Ser97+Ser99)
<b>Chinese Name:</b>	磷酸化染色质相关蛋白1- $\gamma$ 抗体
<b>Alias:</b>	HP1 gamma (phospho S97+S99); HP1 gamma (phospho Ser97+Ser99); p-HP1 gamma (Ser97+Ser99);CBX 3; CBX3; Chromobox homolog 3; Chromobox protein homolog 3; HECH; Heterochromatin like protein 1; Heterochromatin protein 1 homolog gamma; Heterochromatin protein HP1 gamma; HP1 gamma homolog; HP1Hs gamma ; Modifier 2; protein HP1-GAMMA; HP1g; M32; HP1 $\gamma$ ; MGC118084; CBX3 HUMAN; Modifier 2 protein.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	20kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthesised phosphopeptide derived from human HP1 gamma around the phosphorylation site of Ser85+Ser87:SL(p-S)D(p-S)ES
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

	antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>HP1 gamma appears to be involved in transcriptional silencing in heterochromatin-like complexes. It recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. HP1 gamma may contribute to the association of the heterochromatin with the inner nuclear membrane through its interaction with lamin B receptor (LBR) and involved in the formation of functional kinetochore through interaction with MIS12 complex proteins.</p> <p><b>Function:</b> 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.</p> <p><b>Subunit:</b> Binds directly to CHAF1A. Interacts with histone H3 methylated at 'Lys-9'. Part of the E2F6.com-1 complex in G0 phase composed of E2F6, MGA, MAX, TFDP1, CBX3, BAT8, EUHMTASE1, RING1, RNF2, MBLR, L3MBTL2 and YAF2. Interacts with LBR, INCENP, TRIM28/TIF1B, SUV420H1, SUV420H2 and SP100. Interacts with TIF1A. Interacts with MIS12 and DSN1. Can interact directly with CBX5 via the chromoshadow domain. Interacts with POGZ. Interacts with CHAMP1. Interacts with ASXL1.</p> <p><b>Subcellular Location:</b> Nucleus (Potential). Note=Associates with euchromatin and is largely excluded from constitutive heterochromatin. May be associated with microtubules and mitotic poles during mitosis (Potential).</p> <p><b>Post-translational modifications:</b> Phosphorylated by PIM1. Phosphorylated during interphase and possibly hyperphosphorylated during mitosis.</p> <p><b>Similarity:</b> Contains 2 chromo domains.</p> <p><b>SWISS:</b> Q13185</p> <p><b>Gene ID:</b> 11335</p> <p><b>Database links:</b> <a href="#">Entrez Gene: 11335</a>Human</p>

[Entrez Gene: 12417](#)Mouse

[Entrez Gene: 297093](#)Rat

[Omid: 604477](#)Human

[SwissProt: Q13185](#)Human

[SwissProt: P23198](#)Mouse

[Unigene: 381189](#)Human

[Unigene: 280968](#)Mouse

[Unigene: 458234](#)Mouse

[Unigene: 485141](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.