



Rabbit Anti-HP1 gamma antibody

SL1421R

Product Name:	HP1 gamma
Chinese Name:	异染色质蛋白1- γ /HP-1 γ 抗体
Alias:	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; MGC118084; CBX3_HUMAN; Modifier 2 protein;
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Rabbit,
Applications:	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.
Molecular weight:	21kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HP1 gamma:10-150/183
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	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.

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.

Subunit:

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.

Subcellular Location:

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

Post-translational modifications:

Phosphorylated by PIM1. Phosphorylated during interphase and possibly hyperphosphorylated during mitosis.

Similarity:

Contains 2 chromo domains.

SWISS:

Q13185

Gene ID:

11335

Database links:

[Entrez Gene: 11335](#)Human

[Entrez Gene: 12417](#)Mouse

[Entrez Gene: 297093](#)Rat

[Oimim: 604477](#)Human

[SwissProt: Q13185](#)Human

[SwissProt: P23198](#)Mouse

[Unigene: 381189](#)Human

[Unigene: 280968](#)Mouse

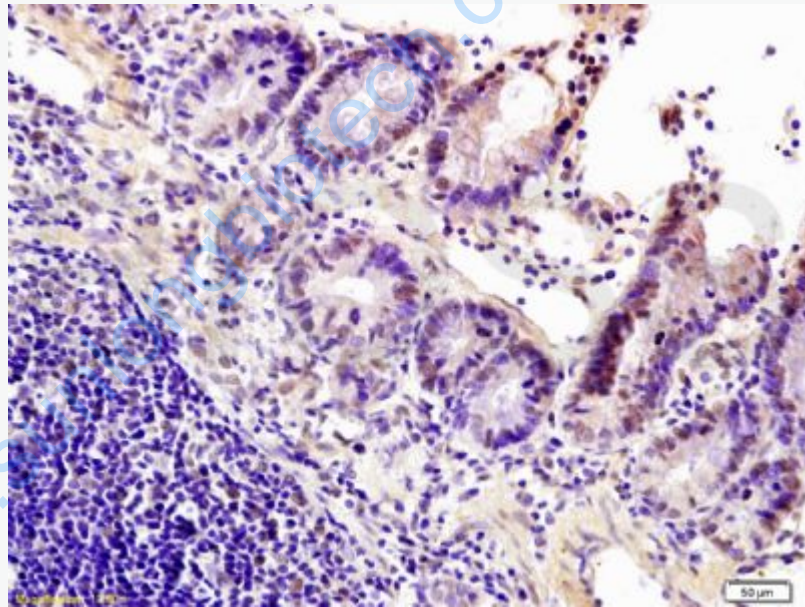
[Unigene: 458234](#)Mouse

[Unigene: 485141](#)Mouse

Important Note:

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

Picture:



Tissue/cell: rat intestine tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block

endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer

(normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-HP1 gamma Polyclonal Antibody, Unconjugated(SL1421R) 1:200,

overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

	DAB(C-0010) staining
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