

Anti-HP1 gamma/CBX3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

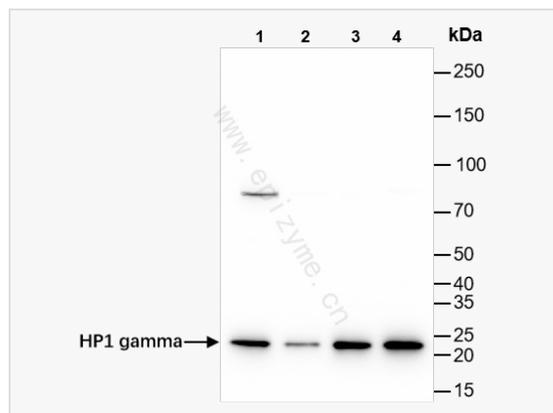
Catalog # R014000

Product Information

Application	IF (Cell)/ICC, ELISA, WB
Reactivity	Human, Rat, Mouse
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	42E59A88
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human HP1 gamma
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-HP1 gamma/CBX3 Rabbit mAb [42E59A88] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	CBX 3, CBX3, CBX3_HUMAN, Chromobox homolog 3 (HP1 gamma homolog, Drosophila), Chromobox homolog 3, Chromobox protein homolog 3, GAMMA, HECH, Heterochromatin like protein 1, Heterochromatin protein 1 homolog gamma, Heterochromatin protein HP1 gamma, HP1 gamma, HP1 gamma homolog, HP1Hs gamma, Modifier 2 protein.
Calculated MW	Calculated MW: 21 kDa; Observed MW: 24 kDa
Uniprot ID	Q13185
Gene ID	11335
Background	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.
Cellular Location	Nucleus. Associates with euchromatin and is largely excluded from constitutive heterochromatin. May be associated with microtubules and mitotic poles during mitosis.



Western Blot - Anti-HP1 gamma/CBX3 Rabbit mAb [42E59A88]

All lanes: R014000 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates

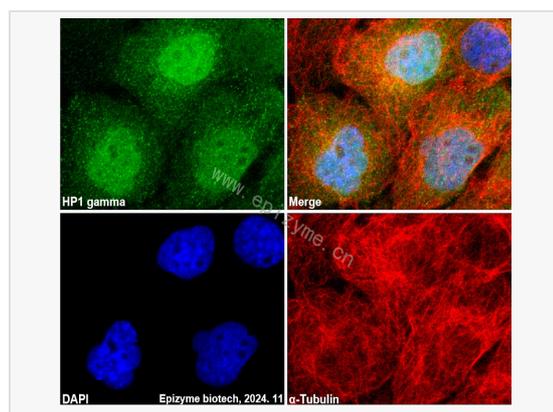
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 21 kDa

Observed band size: 24 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-HP1 gamma/CBX3 Rabbit mAb [42E59A88]

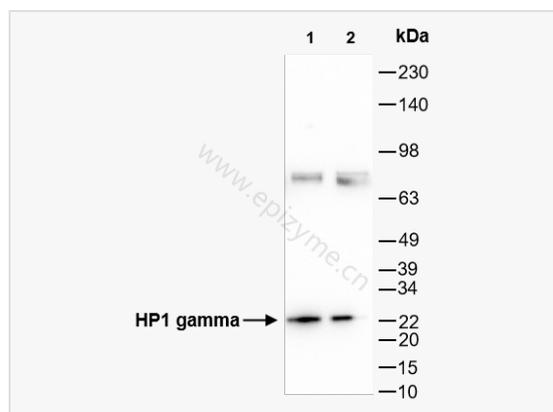
Sample: A431 cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014000 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Western Blot -Anti-HP1 gamma/CBX3 Rabbit mAb [42E59A88]

All lanes: R014000 at 1:1,000 dilution

Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 2: PC-12(Rat adrenal pheochromocytoma epithelial cell)whole cell lysates

Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 21 kDa

Observed band size: 24 kDa

Developed using the ECL technique (Cat. No. SQ201).