

[KO Validated] HP1 gamma/CBX3 Rabbit pAb

Catalog No.: A2248 **KO** **Validated** **4 Publications**

Basic Information

Observed MW

23kDa

Calculated MW

21kDa

Category

Primary antibody

Applications

WB, IHC-P, IF/ICC, IP, ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

At the nuclear envelope, the nuclear lamina and heterochromatin are adjacent to the inner nuclear membrane. The protein encoded by this gene binds DNA and is a component of heterochromatin. This protein also can bind lamin B receptor, an integral membrane protein found in the inner nuclear membrane. The dual binding functions of the encoded protein may explain the association of heterochromatin with the inner nuclear membrane. This protein binds histone H3 tails methylated at Lys-9 sites. This protein is also recruited to sites of ultraviolet-induced DNA damage and double-strand breaks. Two transcript variants encoding the same protein but differing in the 5' UTR, have been found for this gene.

Recommended Dilutions

WB 1:500 - 1:1000**IHC-P** 1:50 - 1:200**IF/ICC** 1:50 - 1:200**IP** 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells**ELISA** Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID

11335

Swiss Prot

Q13185

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

HECH; HP1-GAMMA; HP1Hs-gamma; X3

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

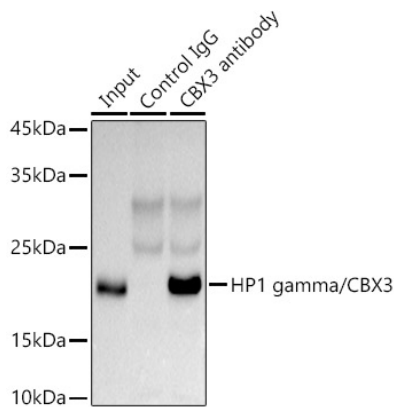
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

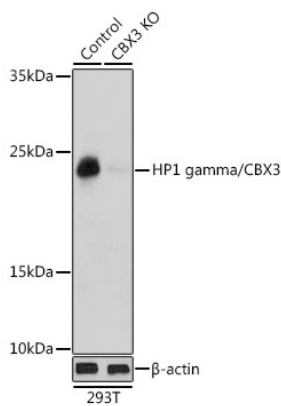
Contact

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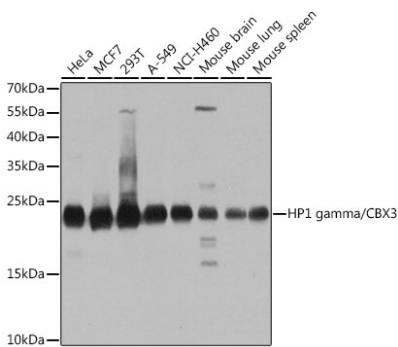
Validation Data



Immunoprecipitation analysis of 300 µg extracts of HeLa cells using 3 µg HP1 gamma/CBX3 antibody (A2248). Western blot was performed from the immunoprecipitate using HP1 gamma/CBX3 antibody (A2248) at a dilution of 1:1000.

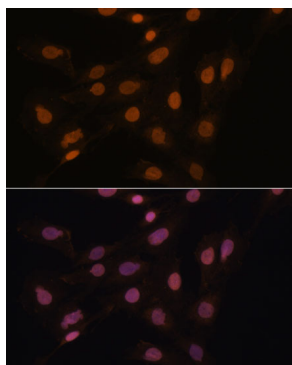


Western blot analysis of lysates from wild type (WT) and HP1 gamma/HP1 gamma/CBX3 knockout (KO) 293T cells, using [KO Validated] HP1 gamma/CBX3 Rabbit pAb (A2248) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

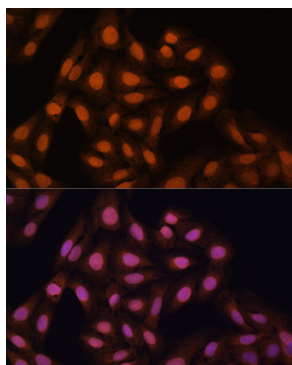


Western blot analysis of various lysates using [KO Validated] HP1 gamma/CBX3 Rabbit pAb (A2248) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5s.

Validation Data



Immunofluorescence analysis of C6 cells using [KO Validated] HP1 gamma/CBX3 Rabbit pAb (A2248) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using [KO Validated] HP1 gamma/CBX3 Rabbit pAb (A2248) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.