

HP1 gamma/CBX3 Rabbit pAb

Catalog No.: A24298

Basic Information

Observed MW

21kDa

Calculated MW

21kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P

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

Immunogen Information

Gene ID

11335

Swiss Prot

Q13185

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-183 of human HP1 gamma/CBX3 (NP_009207.2).

Synonyms

HECH; HP1-GAMMA; HP1Hs-gamma; HP1 gamma/CBX3

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

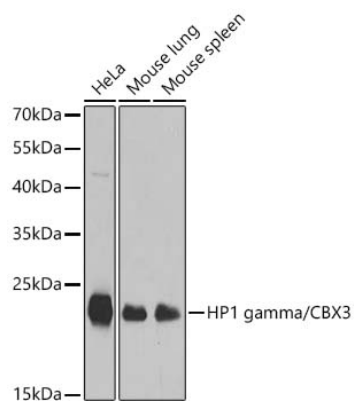
Affinity purification

Storage

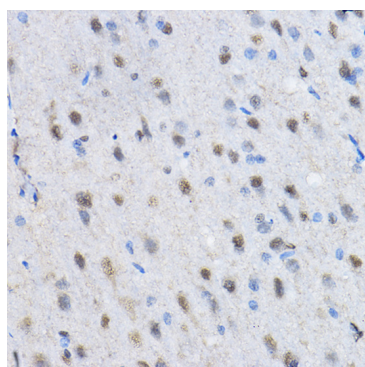
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

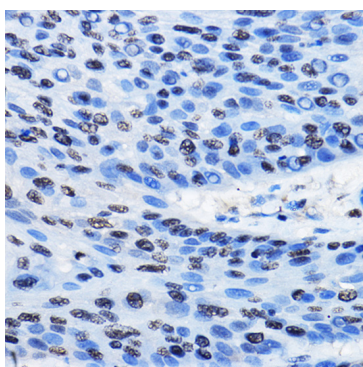
Validation Data



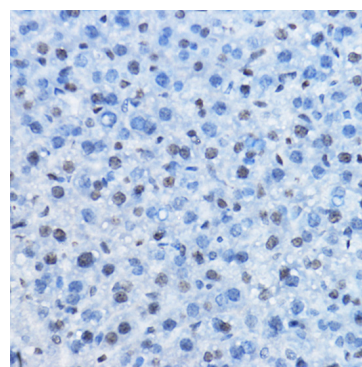
Western blot analysis of various lysates using HP1 gamma/CBX3 Rabbit pAb (A24298) at 1:1000 dilution.
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates / proteins: 25 µg per lane.
 Blocking buffer: 3 % nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 1s.



Immunohistochemistry analysis of HP1 gamma/CBX3 in paraffin-embedded rat brain using HP1 gamma/HP1 gamma/CBX3 Rabbit pAb (A24298) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of HP1 gamma/CBX3 in paraffin-embedded human esophageal cancer using HP1 gamma/HP1 gamma/CBX3 Rabbit pAb (A24298) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of HP1 gamma/CBX3 in paraffin-embedded mouse liver using HP1 gamma/HP1 gamma/CBX3 Rabbit pAb (A24298) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.