

HP1 alpha/CBX5 Rabbit pAb

Catalog No.: A1098

1 Publications

Basic Information

Observed MW

22kDa

Calculated MW

22kDa

Category

Primary antibody

Applications

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

Cross-Reactivity

Human, Mouse, Rat

Background

This gene encodes a highly conserved nonhistone protein, which is a member of the heterochromatin protein family. The protein is enriched in the heterochromatin and associated with centromeres. The protein has a single N-terminal chromodomain which can bind to histone proteins via methylated lysine residues, and a C-terminal chromo shadow-domain (CSD) which is responsible for the homodimerization and interaction with a number of chromatin-associated nonhistone proteins. The encoded product is involved in the formation of functional kinetochore through interaction with essential kinetochore proteins. The gene has a pseudogene located on chromosome 3. Multiple alternatively spliced variants, encoding the same protein, have been identified.

Recommended Dilutions

WB 1:500 - 1:2000**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.**ChIP** 1:20 - 1:100

Contact

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Immunogen Information

Gene ID

23468

Swiss Prot

P45973

Immunogen

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

Synonyms

HP1; HP1A; HEL25; HP1 alpha/CBX5

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

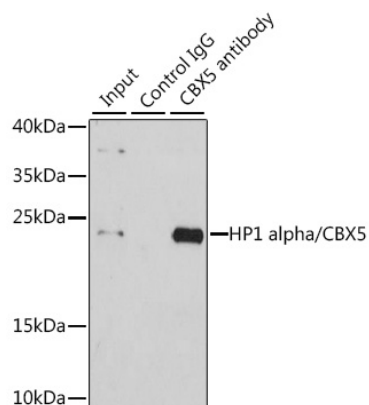
Store at -20°C. Avoid freeze / thaw cycles.

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

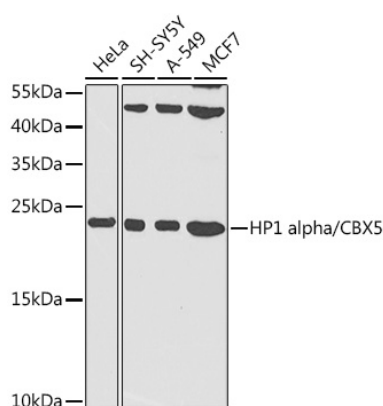


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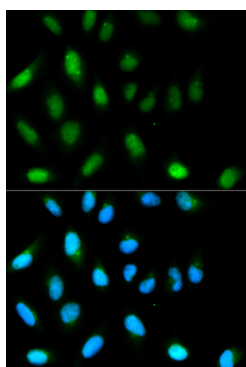
Validation Data



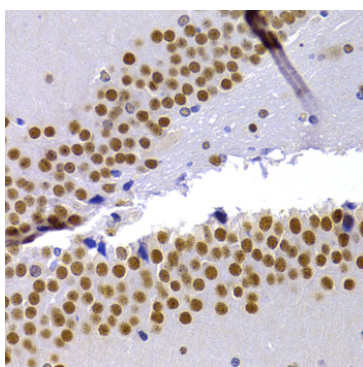
Immunoprecipitation analysis of 200 µg extracts of HeLa cells using 1 µg HP1 alpha/HP1 alpha/CBX5 antibody (A1098). Western blot was performed from the immunoprecipitate using HP1 alpha/HP1 alpha/CBX5 antibody (A1098) at a dilution of 1:1000.



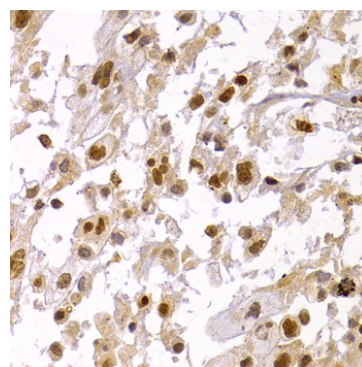
Western blot analysis of various lysates using HP1 alpha/CBX5 Rabbit pAb (A1098) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 90s.



Immunofluorescence analysis of HeLa cells using HP1 alpha/CBX5 Rabbit pAb (A1098). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

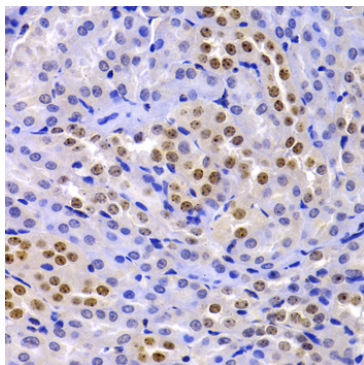


Immunohistochemistry analysis of paraffin-embedded Rat hippocampus using HP1 alpha/CBX5 Rabbit pAb (A1098) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human brain astrocytoma using HP1 alpha/CBX5 Rabbit pAb (A1098) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using HP1 alpha/CBX5 Rabbit pAb (A1098) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.