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Histone H3 Rabbit pAb

Catalog No.: A2348 **160 Publications**

Basic Information

Observed MW
17kDa

Calculated MW
16kDa

Category
Primary antibody

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

Cross-Reactivity
Human, Mouse, Rat, Other (Wide Range Predicted)

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

Recommended Dilutions

WB	1:2000 - 1:10000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ChIP	3μg antibody for 5μg-10μg of Chromatin

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 36-136 of human HIST3H3 (NP_003520.1).

Synonyms
H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; Histone H3

Contact

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Product Information

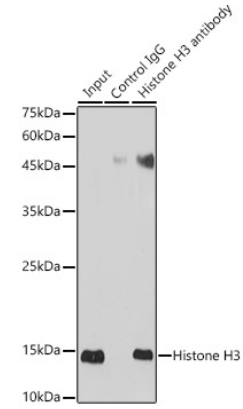
Source
Rabbit

Isotype
IgG

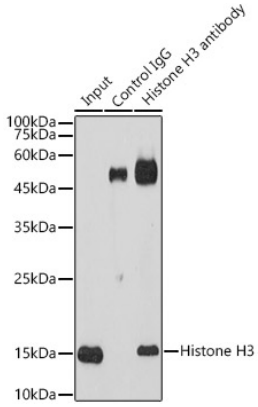
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

Validation Data



Immunoprecipitation analysis of 600 µg extracts of HeLa cells using 10ug Histone H3 antibody (A2348). Western blot was performed from the immunoprecipitate using Histone H3 antibody (A2348) at a dilution of 1:30000.



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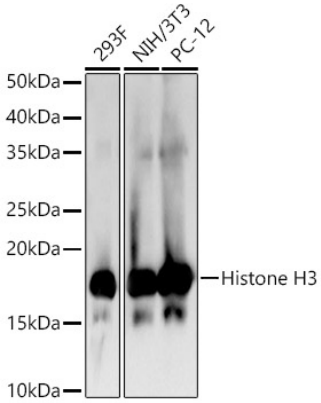
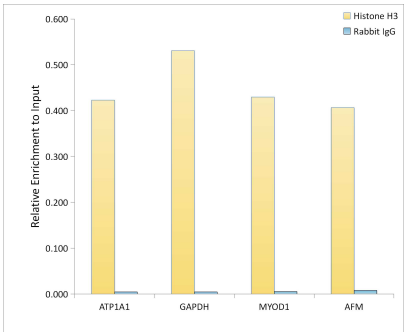
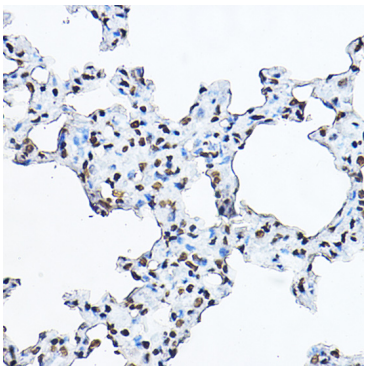


Western blot analysis of various lysates using Histone H3 Rabbit pAb (A2348) at 1:10000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates / proteins: 25 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

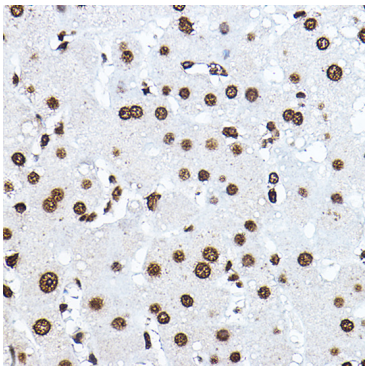
Validation Data



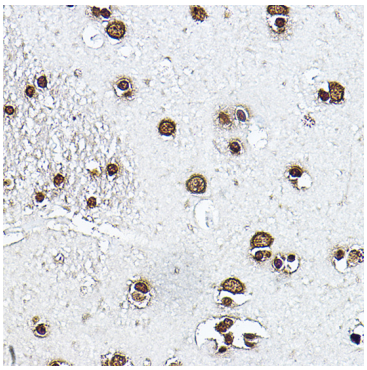
Chromatin immunoprecipitation analysis of extracts of 293T cells, using Histone H3 antibody (A2348) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



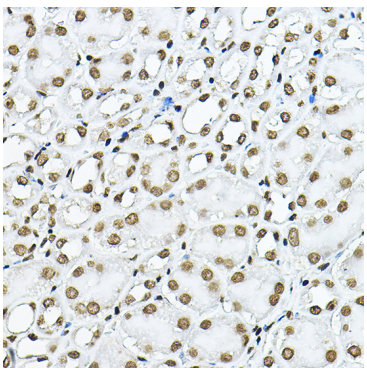
Immunohistochemistry analysis of Histone H3 in paraffin-embedded rat lung using Histone H3 Rabbit pAb (A2348) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



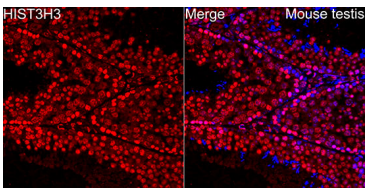
Immunohistochemistry analysis of Histone H3 in paraffin-embedded human liver using Histone H3 Rabbit pAb (A2348) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



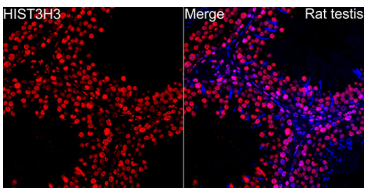
Immunohistochemistry analysis of Histone H3 in paraffin-embedded human brain using Histone H3 Rabbit pAb (A2348) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Histone H3 in paraffin-embedded mouse kidney using Histone H3 Rabbit pAb (A2348) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IF staining protocol.Immunofluorescence analysis of paraffin-embedded mouse testis using Histone H3 Rabbit pAb (A2348) at dilution of 1:200 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IF staining protocol.Immunofluorescence analysis of paraffin-embedded rat testis using Histone H3 Rabbit pAb (A2348) at dilution of 1:200 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.