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Histone H3 Rabbit mAb

Catalog No.: AC070 Recombinant

Basic Information

Observed MW
17 kDa

Calculated MW
15 kDa

Category
Loading control antibody

Applications
WB,IP,IHC-P,ChIP,ELISA

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

CloneNo number
ARC75100

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 found in the large histone gene cluster on chromosome 6p22-p21.3.

Recommended Dilutions

WB	1:80000 - 1:320000
IP	0.5μg-4μg antibody for 100μg-300μg extracts of whole cells
IHC-P	1:5000 - 1:20000
ChIP	2μg antibody for 10μg-15μg of Chromatin
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
H3/A; H3C2; H3C3; H3C4; H3C6; H3C7; H3C8; H3FA; H3C10; H3C11; H3C12; HIST1H3A; Histone H3; H3-4; H3/t; H3/g; H3FT; HIST3H3

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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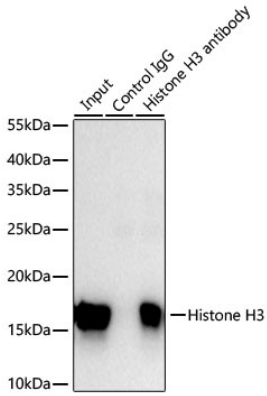
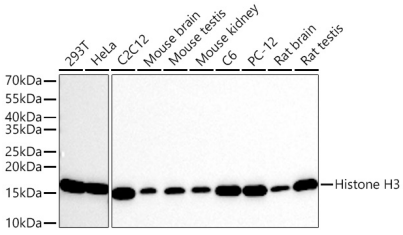
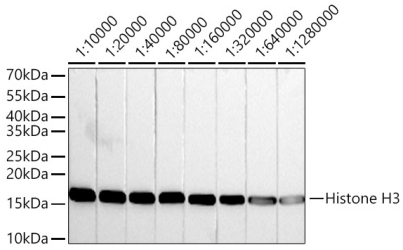
Validation Data



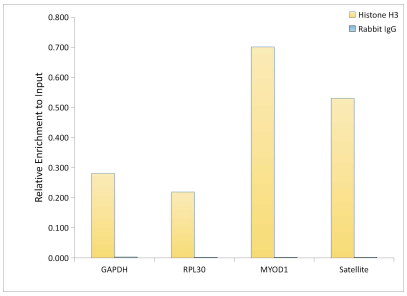
Immunoprecipitation of Histone H3 from 200 µg extracts of MCF7 cells was performed using 2 µg of Histone H3 Rabbit mAb (AC070). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1× Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Histone H3 Rabbit mAb (AC070) at a dilution of 1:5000.



Western blot analysis of various lysates using Histone H3 Rabbit mAb (AC070) at 1:160000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated 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: 20 s.

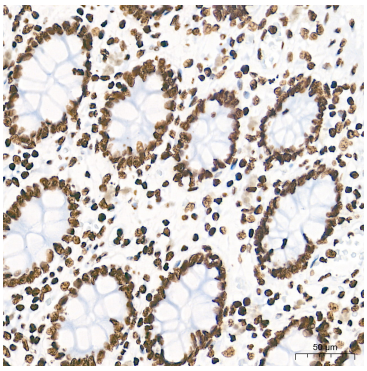


Western blot analysis of lysates from HeLa cells using Histone H3 Rabbit mAb (AC070) at 1:10000-1:1280000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.

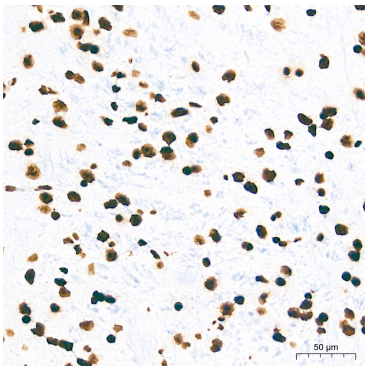


Chromatin immunoprecipitation was performed with 10 µg of cross-linked chromatin from HeLa, using 2 µg of Histone H3 Rabbit mAb (AC070) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.

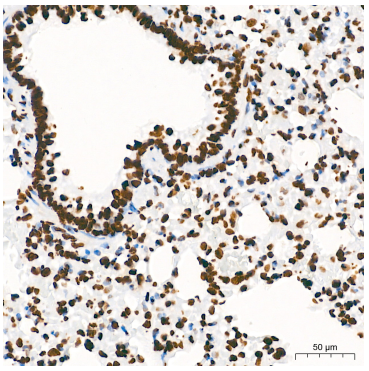
Validation Data



Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Histone H3 Rabbit mAb (AC070) at a dilution of 1:5500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Histone H3 Rabbit mAb (AC070) at a dilution of 1:5500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using Histone H3 Rabbit mAb (AC070) at a dilution of 1:5500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.