

A23000

Leader in Biomolecular Solutions for Life Science



Histone H4 Rabbit mAb

Catalog No.: A23000

Recombinant

1 Publications

Basic Information

Observed MW

Calculated MW

11kDa

Category

SMab Recombinant Monoclonal
Antibody

Applications

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

Cross-Reactivity

Human,Mouse,Rat,Other (Wide Range
Predicted)

CloneNo number

ARC57963

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 H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy.

Recommended Dilutions

WB 1:1000 - 1:4000

IHC-P 1:1000 - 1:4000

IF/ICC 1:200 - 1:800

ELISA Recommended starting
concentration is 1
µg/mL. Please optimize
the concentration
based on your specific
assay requirements.

ChIP 5µg antibody for
5µg-10µg of Chromatin

ChIP-seq 1:50 - 1:200

Immunogen Information

Gene ID
8359**Swiss Prot**
P62805

Immunogen

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

Synonyms

H4; H4/n; H4C1; H4C2; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4F2; H4FN; FO108;
H4-16; H4C11; H4C12; H4C13; H4C15; H4C16; HIST2H4; HIST2H4A; Histone H4

Product Information

Source
Rabbit**Isotype**
IgG**Purification**
Affinity purification

Storage

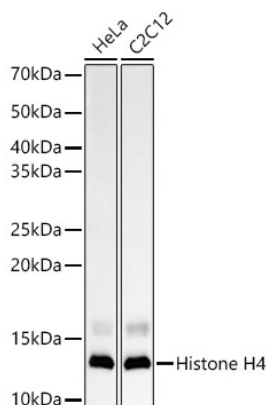
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

www.abclonal.com

Validation Data



Western blot analysis of various lysates, using Histone H4 Rabbit mAb (A23000) at 1:1000 dilution.

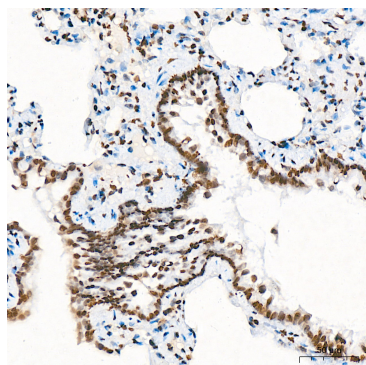
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

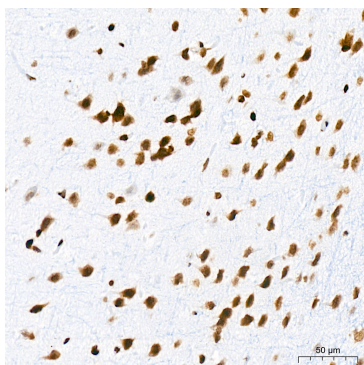
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

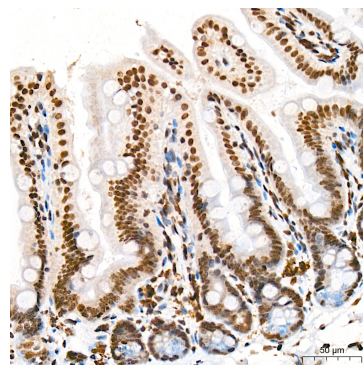
Exposure time: 30s.



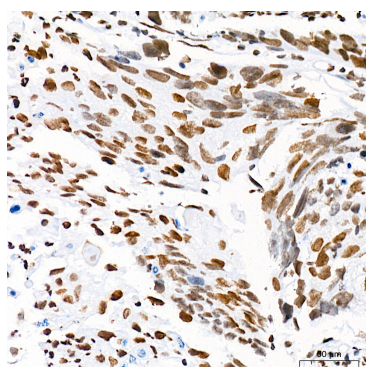
Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using Histone H4 Rabbit mAb (A23000) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



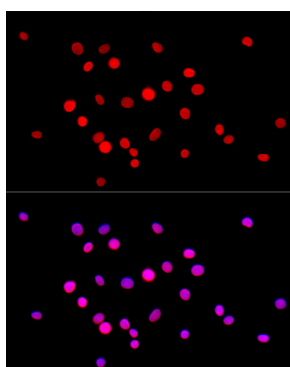
Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Histone H4 Rabbit mAb (A23000) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



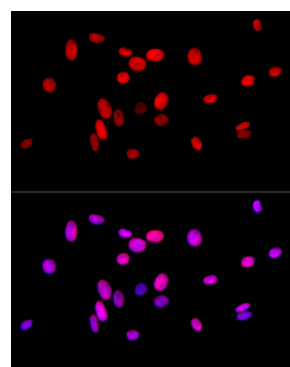
Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using Histone H4 Rabbit mAb (A23000) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human cervix cancer tissue using Histone H4 Rabbit mAb (A23000) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

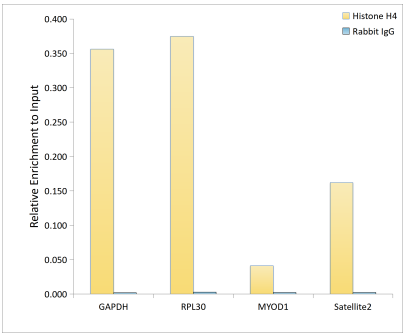


Immunofluorescence analysis of NIH/3T3 cells using Histone H4 Rabbit mAb (A23000) at dilution of 1:300 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

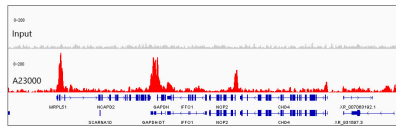


Immunofluorescence analysis of PC-12 cells using Histone H4 Rabbit mAb (A23000) at dilution of 1:300 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Validation Data



Chromatin immunoprecipitation analysis of extracts of cells, using Histone H4 antibody (A23000) 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.



Chromatin immunoprecipitations were performed with cross-linked chromatin from Hela cells and Histone H4 mAb (A23000). The ChIP sequencing results indicate the enrichment pattern of Histone H4 in selected genomic region and representative gene loci (GAPDH), as shown in figure.