A23000

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Histone H4 Rabbit mAb

Catalog No.: A23000 Recombinant 3 Publications

Basic Information

Observed MW

Calculated MW
11kDa

Category
Monoclonal Antibody

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

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

Clone 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

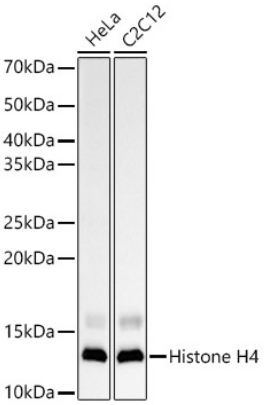
Purification
Affinity purification

Storage
Store at -20℃

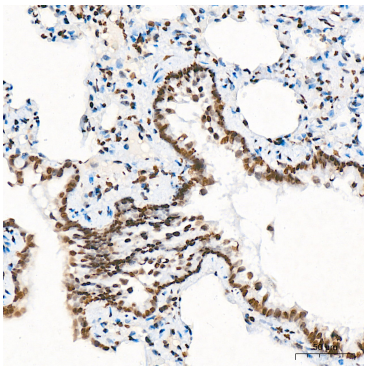
Contact

www.abclonal.com

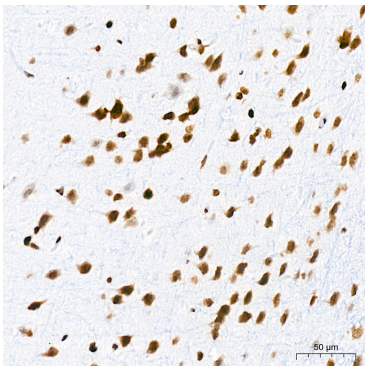
Validation Data



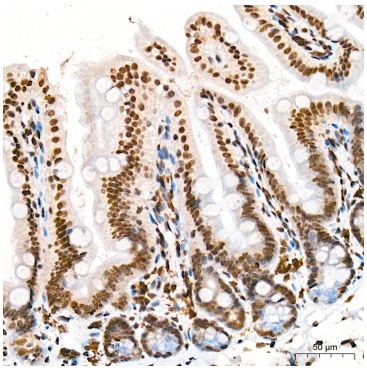
Western blot analysis of various lysates, using Histone H4 Rabbit mAb (A23000) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 30s.



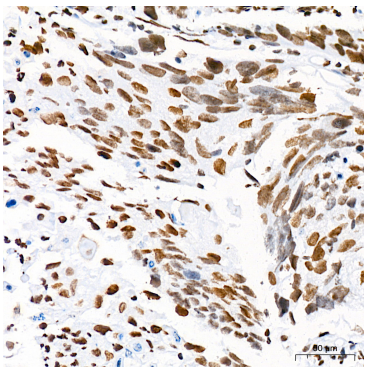
Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using Histone H4 Rabbit mAb (A23000) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



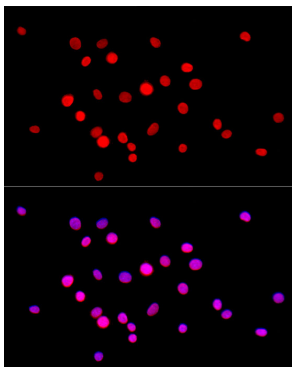
Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Histone H4 Rabbit mAb (A23000) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



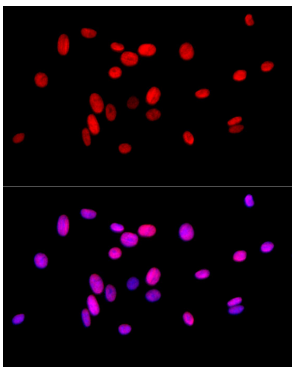
Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using Histone H4 Rabbit mAb (A23000) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



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.

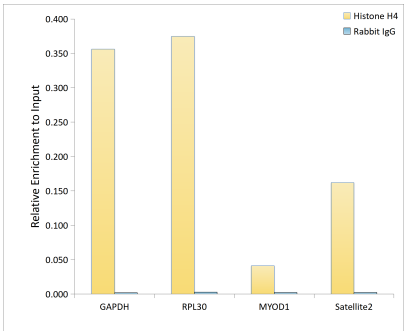


Immunofluorescence analysis of NIH/3T3 cells using Histone H4 Rabbit mAb (A23000) at dilution of 1:300 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

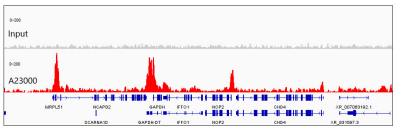


Immunofluorescence analysis of PC-12 cells using Histone H4 Rabbit mAb (A23000) at dilution of 1:300 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

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.