A22099

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Acetyl-Histone H4-K12 Rabbit mAb

Catalog No.: A22099 Recombinant 1 Publications

Basic Information

Observed MW
11kDa

Calculated MW
11kDa

Category
Monoclonal Antibody

Applications
WB,IHC-P,IF/ICC,ChIP,ELISA,DB,CUT&Tag

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

Clone number
ARC54033

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	1:2000 - 1:20000
DB	1:2000 - 1:8000
IHC-P	1:100 - 1:500
IF/ICC	1:100 - 1:500
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
CUT&Tag	10^5 cells /1 μg

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; Acetyl-Histone H4-K5/K8/K12/K16

Product Information

Source
Rabbit

Isotype
IgG

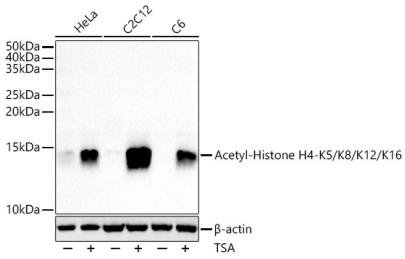
Purification
Affinity purification

Storage
Store at -20℃

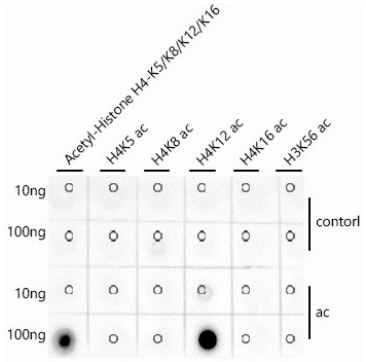
Contact

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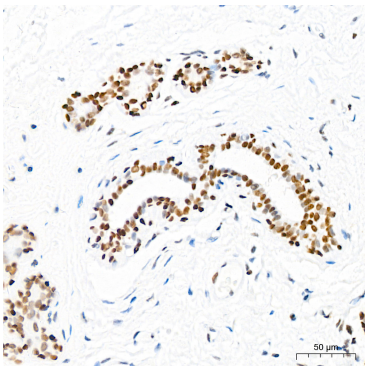
Validation Data



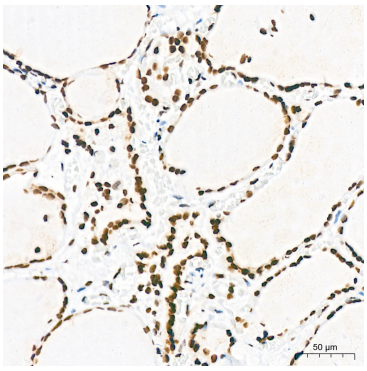
Western blot analysis of various lysates, using Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb (A20735) at1:20000 dilution. HeLa,C2C12 and C6 cells were treated with TSA (1 uM) at 37℃ for 18 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



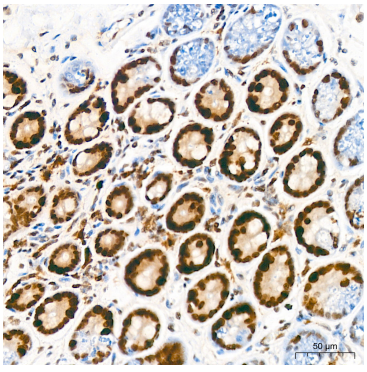
Dot-blot analysis of all sorts of peptides using Acetyl-Histone H4-K5/K8/K12/K16 antibody (A22099) at 1:7000 dilution.



Immunohistochemistry analysis of paraffin-embedded Human breast tissue using Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb (A22099) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



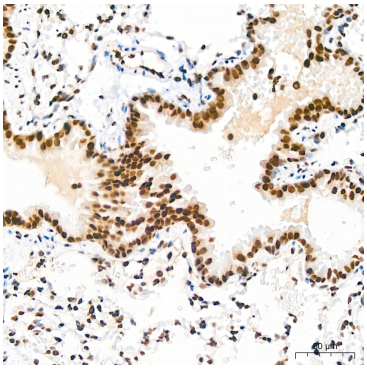
Immunohistochemistry analysis of paraffin-embedded Human thyroid tissue using Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb (A22099) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb (A22099) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

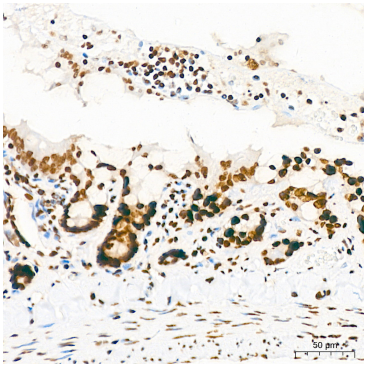


Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb (A22099) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

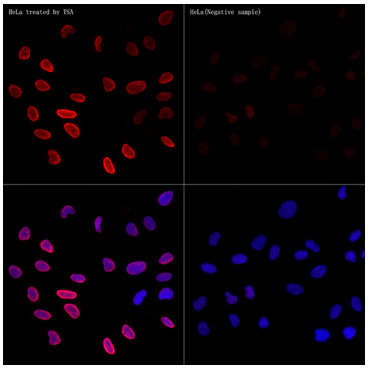


Immunohistochemistry analysis of paraffin-embedded Mouse lung tissue using Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb (A22099) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

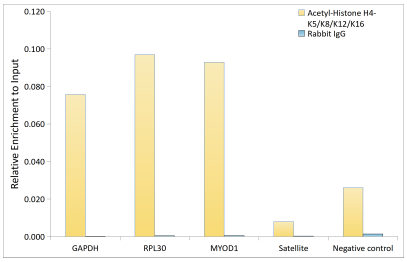
Validation Data



Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb (A22099) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of HeLa treated with TSA and HeLa cells using Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb (A22099) 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.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb antibody (A22099) 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.



CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265) from 10^5 K562 cells with 1 µg Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb antibody (A22099) , along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of Acetyl-Histone H4-K5/K8/K12/K16 in representative gene loci (RPL30), as shown in figure.