

Acetyl-Histone H4-K12 Rabbit mAb

Catalog No.: A22099 **Recombinant** **1 Publications**

Basic Information

Observed MW

11kDa

Calculated MW

11kDa

Category

Primary antibody

Applications

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

Cross-Reactivity

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

CloneNo number

ARC54033

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 10⁵ cells /1 µg

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.

Immunogen Information

Gene ID

8359

Swiss Prot

P62805

Immunogen

A synthetic acetylated peptide around K5/K8/K12/K16 of human Histone H4.

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°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

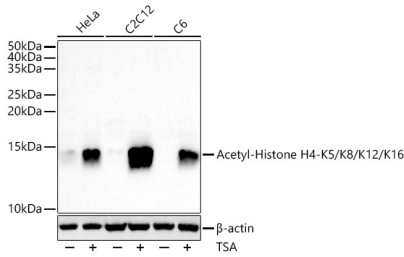
Contact

 | 400-999-6126

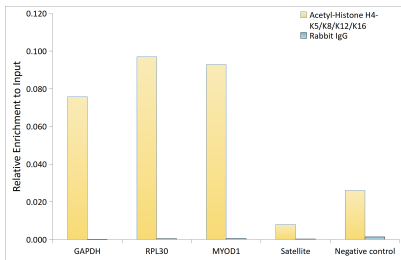
 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

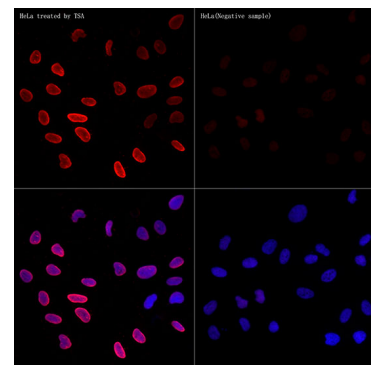
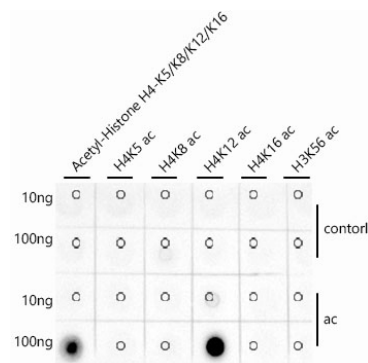
Validation Data



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



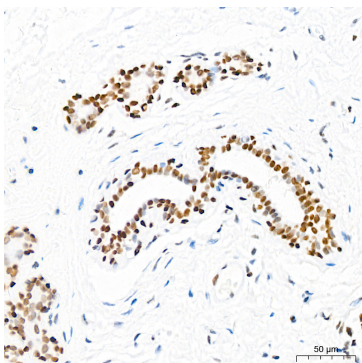
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb antibody (A22099) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



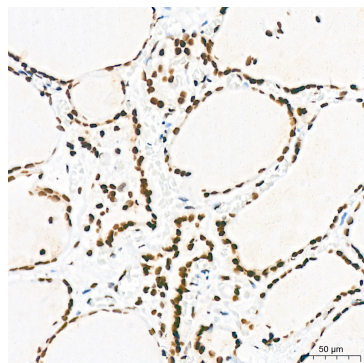
CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina (RK20265) from 10⁵ K562 cells with 1 μ g Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb antibody (A22099), along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of Acetyl-Histone H4-K5/K8/K12/K16 in representative gene loci (RPL30), as shown in figure.

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

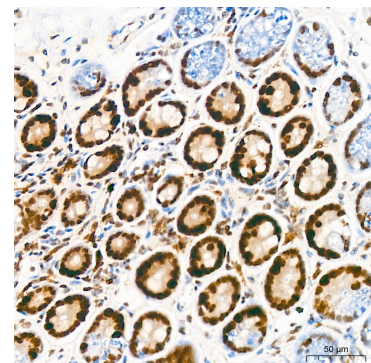
Immunofluorescence analysis of HeLa treated by TSA and HeLa cells using Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb (A22099) at dilution of 1:300 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-



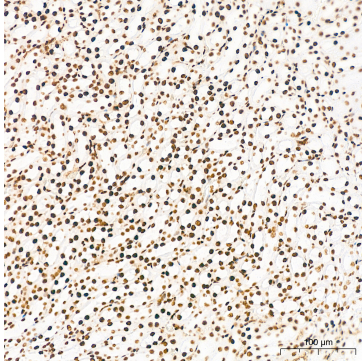
Immunohistochemistry analysis of paraffin-



Immunohistochemistry analysis of paraffin-

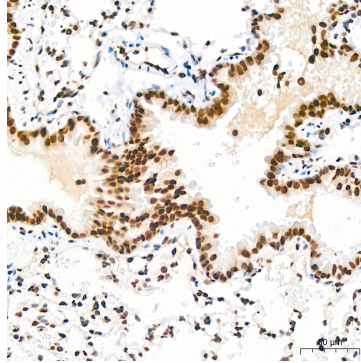
Validation Data

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 Bufferr (pH 6.0) prior to IHC staining.



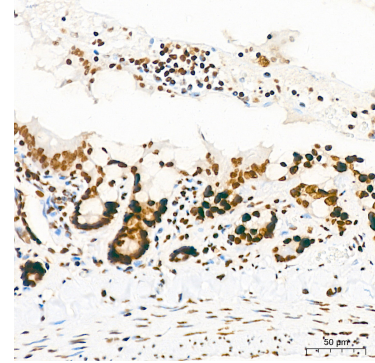
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using Acetyl-Histone H4-K5/K8/K12/K16 Rabbit mAb (A22099) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

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 Bufferr (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 Bufferr (pH 6.0) prior to IHC staining.

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 Bufferr (pH 6.0) prior to IHC staining.



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 Bufferr (pH 6.0) prior to IHC staining.