TriMethyl-Histone H3-K4 Rabbit mAb

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Catalog No.: A22146 Recombinant 2 Publications

Basic Information

Observed MW

17kDa

Calculated MW

15kDa

Category

Primary antibody

Applications

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

Cross-Reactivity

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

CloneNo number

ARC55095

DB

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone 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 located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

Recommended Dilutions

1:10000 - 1:60000

WB	1:10000- 1:60000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
ChIP	5µg antibody for 5µg-10µg of Chromatin
CUT&Tag	10⁵ cells /1 μg
ChIP-seq	1:50 - 1:200

Contact

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Immunogen Information

Gene ID	Swiss Prot
8290/8350	Q16695/P68431

Immunogen

A synthetic trimethylated peptide around K4 of human Histone H3 (NP_003520.1).

Synonyms

H3.4; H3/g; H3FT; H3t; HIST3H3; Histone H3; HIST1H3A; TriMethyl-Histone H3-K4

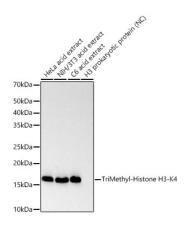
Product Information

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

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

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



Western blot analysis of various lysates, using TriMethyl-Histone H3-K4 Rabbit mAb (A22146) at1:50000 dilution

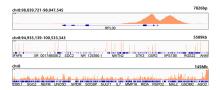
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

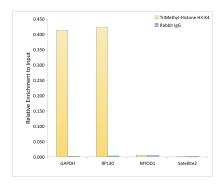
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

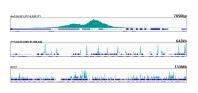
Exposure time: 30s.

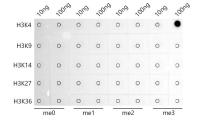


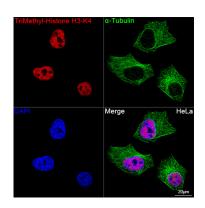
Chromatin immunoprecipitations were performed with cross-linked chromatin from 293T cells and TriMethyl-Histone H3-K4 Rabbit mAb (A22146). The ChIP sequencing results indicate the enrichment TriMethyl-Histone H3-K9 in selected genomic region and representative gene loci (RPL30), as shown in figure.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using TriMethyl-Histone H3-K4 antibody (A22146) 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

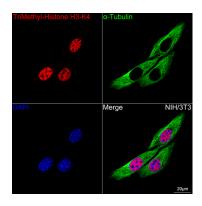
Dot-blot analysis of all sorts of peptides

Confocal imaging of HeLa cells

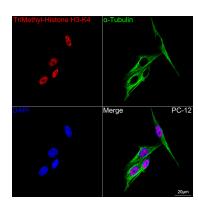
Assay Kit (pAG-Tn5) for Illumina(RK20265) from 10^5 K562 cells with 1 μ g TriMethyl-Histone H3-K4 antibody (A22146) , along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of H3K4me3 in representative gene loci (GAPDH), as shown in figure.

using TriMethyl-Histone H3-K4 antibody (A22146) at 1:50000 dilution.

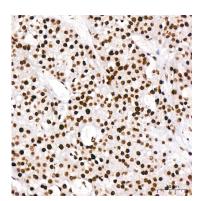
using TriMethyl-Histone H3-K4 Rabbit mAb (A22146, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit lgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo \$ 488-conjugated Goat Anti-Mouse lgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



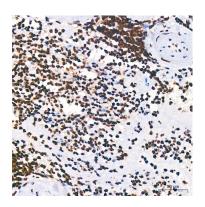
Confocal imaging of NIH/3T3 cells using TriMethyl-Histone H3-K4 Rabbit mAb (A22146, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



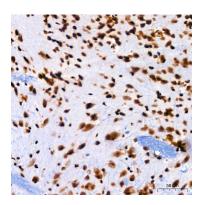
Confocal imaging of PC-12 cells using TriMethyl-Histone H3-K4 Rabbit mAb (A22146, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of TriMethyl-Histone H3-K4 in paraffin-embedded human liver cancer using TriMethyl-Histone H3-K4 Rabbit mAb (A22146) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of TriMethyl-Histone H3-K4 in paraffin-embedded human spleen using TriMethyl-Histone H3-K4 Rabbit mAb (A22146) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of TriMethyl-Histone H3-K4 in paraffin-embedded mouse brain using TriMethyl-Histone H3-K4 Rabbit mAb (A22146) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.