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# TriMethyl-Histone H3-K4 Rabbit mAb

**Catalog No.: A22226** Recombinant 1 Publications

## Basic Information

**Observed MW**
17kDa

**Calculated MW**
15kDa

**Category**
Primary antibody

**Applications**
WB,DB,IHC-P,IF/ICC,ELISA,ChIP

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

**CloneNo number**
ARC55094

## 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

| | |
|---|---|
| **WB** | 1:10000 - 1:40000 |
| **DB** | 1:10000 - 1:40000 |
| **IHC-P** | 1:50 - 1:200 |
| **IF/ICC** | 1:50 - 1:200 |
| **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 |

## Immunogen Information

**Gene ID**
8290/8350

**Swiss Prot**
Q16695/P68431

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

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

## Product Information

**Source**
Rabbit

**Isotype**
IgG

**Purification**
Affinity purification

**Storage**
Store at -20℃

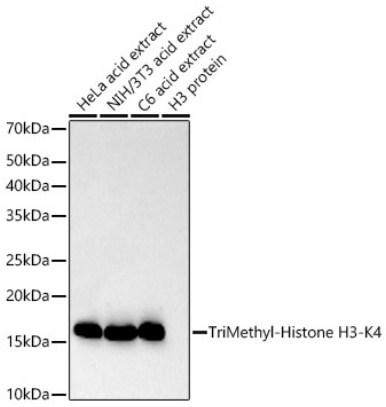
## Contact


400-999-6126

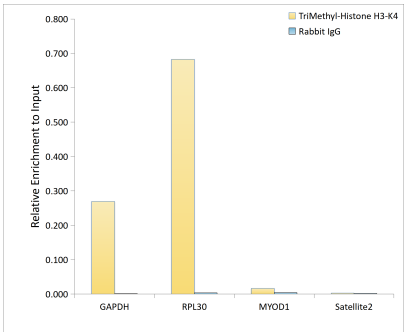
cn.market@abclonal.com.cn

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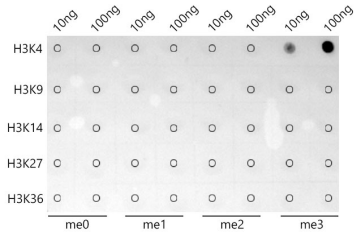
## Validation Data



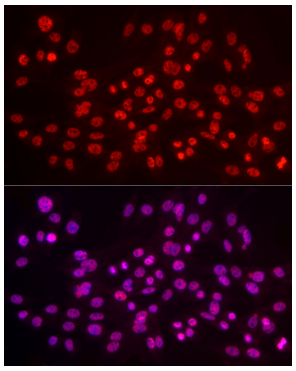

Western blot analysis of various lysates, using TriMethyl-Histone H3-K4 Rabbit mAb (A22226) at1:40000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



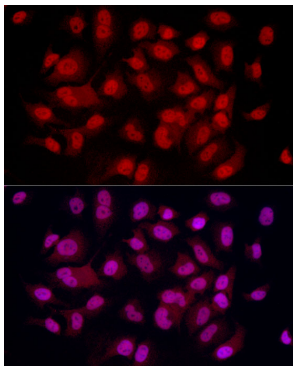

Chromatin immunoprecipitation analysis of extracts of HeLa; cells, using TriMethyl-Histone H3-K4 antibody (A22226) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.




Dot blot analysis of all sorts of peptides using TriMethyl-Histone H3-K4 antibody (A22226) at 1:40000 dilution.

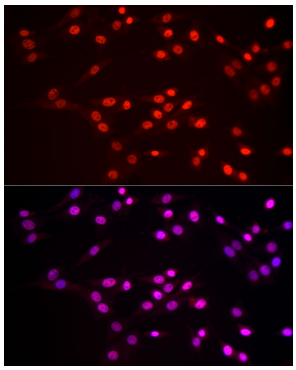


Immunofluorescence analysis of C6 cells using TriMethyl-Histone H3-K4 Rabbit mAb (A22226) at dilution of 1:100(40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

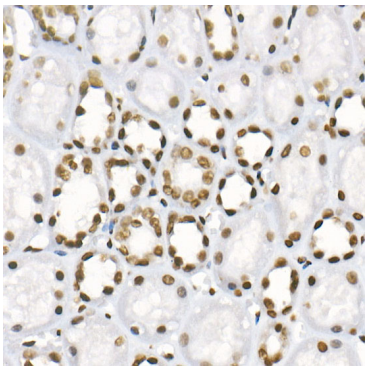


Immunofluorescence analysis of HeLa cells using TriMethyl-Histone H3-K4 Rabbit mAb (A22226) at dilution of 1:100(40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

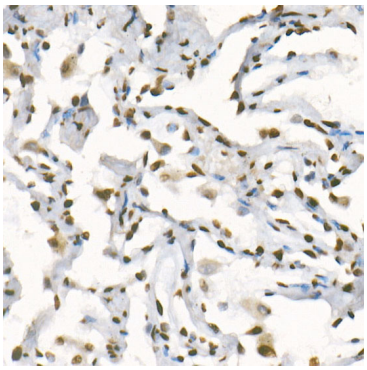
## Validation Data



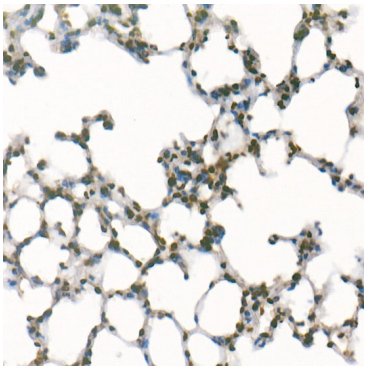
Immunofluorescence analysis of NIH/3T3 cells using TriMethyl-Histone H3-K4 Rabbit mAb (A22226) at dilution of 1:100(40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



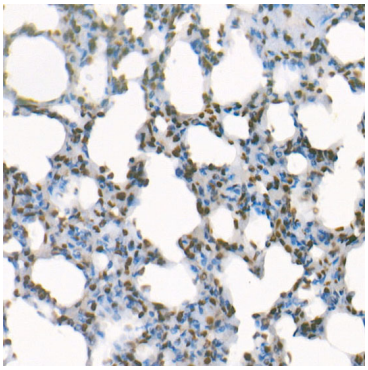
Immunohistochemistry analysis of paraffin-embedded Human kidney using TriMethyl-Histone H3-K4 Rabbit mAb (A22226) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human lung using TriMethyl-Histone H3-K4 Rabbit mAb (A22226) at dilution of 1:100 (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 using TriMethyl-Histone H3-K4 Rabbit mAb (A22226) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat lung using TriMethyl-Histone H3-K4 Rabbit mAb (A22226) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.