# TriMethyl-Histone H3-K4 Rabbit mAb

Catalog No.: A22225 Recombinant 3 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** 

ARC55092

## 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 - 1:30000
DB	1:10000 - 1:60000
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

### Contact

6	400-999-6126
$\times$	cn.market@abclonal.com.cn

# 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

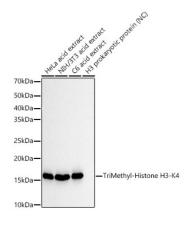
Isotype lgG

Purification Affinity purification

#### Storage

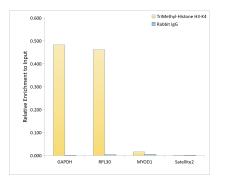
Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

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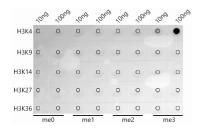


Western blot analysis of various lysates, using TriMethyl-Histone H3-K4 Rabbit mAb (AP1324) at1:30000 dilution.

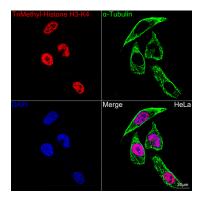
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



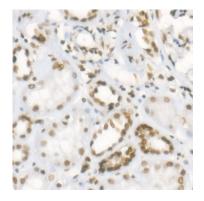
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using TriMethyl-Histone H3-K4 antibody (A22225) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



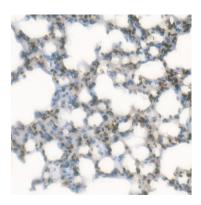
Dot-blot analysis of all sorts of peptides using TriMethyl-Histone H3-K4 Rabbit mAb antibody (A22225) at 1:30000 dilution.



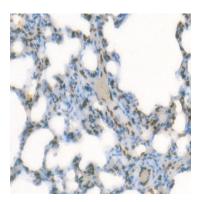
Confocal imaging of HeLa cells using TriMethyl-Histone H3-K4 Rabbit mAb (A22225,dilution 1:200)(Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 60x.



Immunohistochemistry analysis of paraffinembedded Human kidney using TriMethyl-Histone H3-K4 Rabbit mAb (A22225) 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 paraffinembedded Mouse lung using TriMethyl-Histone H3-K4 Rabbit mAb (A22225) 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 paraffinembedded Rat lung using TriMethyl-Histone H3-K4 Rabbit mAb (A22225) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.