# TriMethyl-Histone H3-K4 Rabbit mAb

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Catalog No.: A22225 Recombinant 1 Publications

## **Basic Information**

### **Observed MW**

17kDa

#### **Calculated MW**

15kDa

### Category

Primary antibody

## **Applications**

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

DB	1:10000 - 1:60000	
WB	1:10000 - 1:30000	
IHC-P	1:50 - 1:200	
IF/ICC	1:50 - 1:200	

Chip	5μg antibody for		
	5μg-10μg of Chromatin		

# **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

## Contact

6	400-999-6126
$\bowtie$	cn.market@abclonal.com.cn
$\overline{\bullet}$	www.abclonal.com.cn

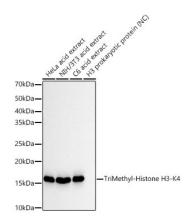
## **Product Information**

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 (AP1324) at1:30000 dilution

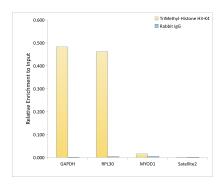
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

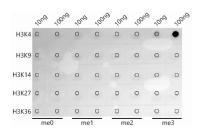
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

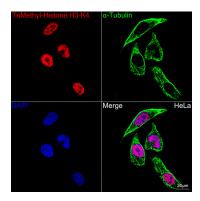
Exposure time: 10s.



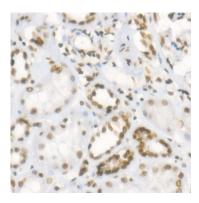
Chromatin immunoprecipitation analysis of extracts of HeLa cells, using TriMethyl-Histone H3-K4 antibody (A22225) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



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

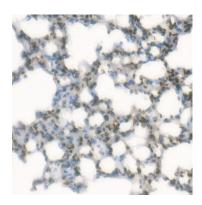


Confocal imaging of HeLa cells using TriMethyl-Histone H3-K4 Rabbit mAb (A22225,dilution 1:200)(Red). The cells were counterstained with  $\alpha\text{-}Tubulin$  Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 60x.

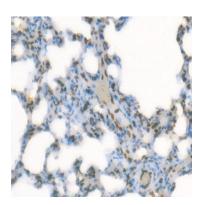


Immunohistochemistry analysis of TriMethyl-Histone H3-K4 in paraffin-embedded human kidney using TriMethyl-Histone H3-K4 Rabbit mAb (A22225) at dilution of 1:100(40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

# **Validation Data**



Immunohistochemistry analysis of TriMethyl-Histone H3-K4 in paraffin-embedded mouse lung using TriMethyl-Histone H3-K4 Rabbit mAb (A22225) at dilution of 1:100(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 rat lung using TriMethyl-Histone H3-K4 Rabbit mAb (A22225) at dilution of 1:100(40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.