# TriMethyl-Histone H3-K4 Rabbit pAb

Catalog No.: A2357 77 Publications



# **Basic Information**

#### **Observed MW**

17 kDa

#### **Calculated MW**

15 kDa

## Category

Primary antibody

## **Applications**

WB,DB,IHC-P,ELISA,ChIP,ChIP-seq

### **Cross-Reactivity**

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

# **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** 1:40000 - 1:160000

DB 1:500 - 1:2000

IHC-P 1:50 - 1:200

**ELISA** Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

requirement

**ChIP** 5μg antibody for 5μg-10μg of Chromatin

ChIP-seq 1:20 - 1:100

## **Contact**

<u>a</u>	400-999-6126
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# Immunogen Information

 Gene ID
 Swiss Prot

 8290/8350
 Q16695/P68431

### **Immunogen**

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

## **Synonyms**

H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; TriMethyl-Histone H3-K4

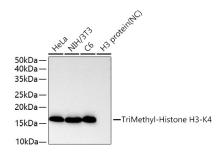
## **Product Information**

SourceIsotypePurificationRabbitIgGAffinity purification

#### Storage

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

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



Western blot analysis of various lysates using TriMethyl-Histone H3-K4 Rabbit pAb (A2357) at 1:80000 dilution incubated overnight at  $4^{\circ}$ C.

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

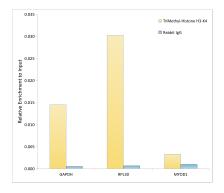
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

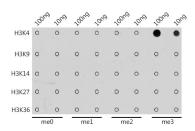
Detection: ECL Basic Kit (RM00020).

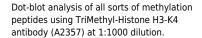
Negative control (NC): Recombinant H3 protein(10 ng per lane).

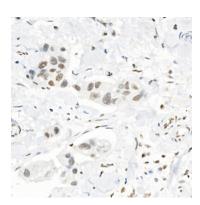
Exposure time: 30 s.



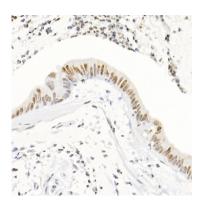
Chromatin immunoprecipitation analysis of extracts of 293F cells, using TriMethyl-Histone H3-K4 Rabbit pAb antibody (A2357) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.







Immunohistochemistry analysis of paraffinembedded Human breast cancer using TriMethyl-Histone H3-K4 Rabbit pAb (A2357) at dilution of 1:20 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human colon carcinoma using TriMethyl-Histone H3-K4 Rabbit pAb (A2357) at dilution of 1:20 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.