

# DiMethyl-Histone H3-K4 pAb

Catalog No: tcba7449



## Available Sizes

**Size:** 50ul

**Size:** 100ul

**Size:** 200ul



## Specifications

**Application:**

WB,IHC,IF,IP,ChIP,ChIPseq

**Research Area:**

Cancer,MAPK pathway,MAPK/p38 pathway,MAPK/ERK pathway,Epigenetics,

**Species Reactivity:**

Human,Mouse,Rat,Other (Wide Range)

**Host Species:**

Rabbit

**Isotype:**

IgG

**Form:**

Liquid

**Storage Buffer:**

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Recommended Dilution:**

WB 1:500 - 1:2000

IHC 1:50 - 1:200

IF 1:50 - 1:200

IP 1:50 - 1:200

ChIP 1:50 - 1:200

CHIPseq 1:50 - 1:200

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**Storage Instruction:**

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

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**Alternative Names:**

H3.4;H3/g;H3FT;H3t

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**SwissProt:**

Q16695

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**Gene ID:**

8290 (human);

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**Calculated Molecular Weight:**

15kDa

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**Purification:**

Affinity purification

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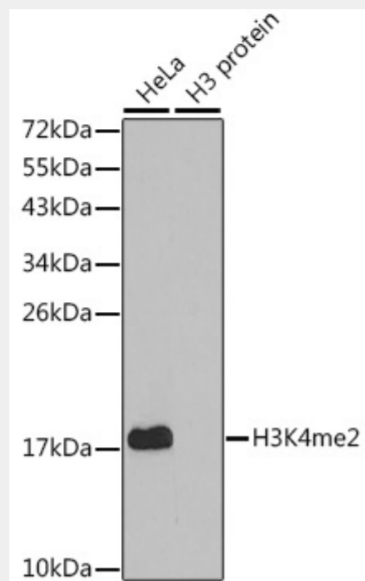
**Cellular Location:**

Chromosome,Nucleus,

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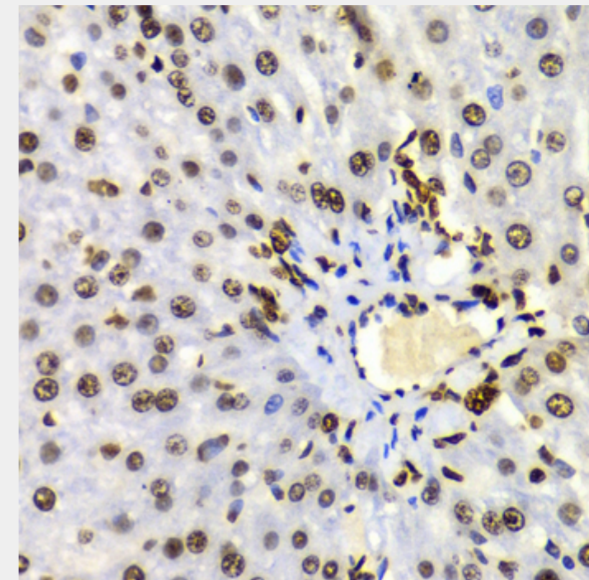
**Product Description**

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.

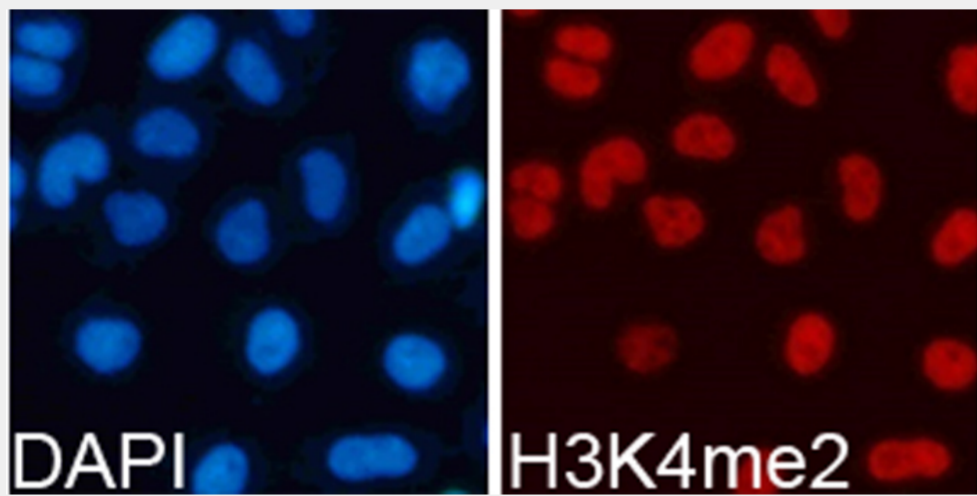


Western blot analysis of extracts of various cell lines, using DiMethyl-Histone H3-K4 antibody.

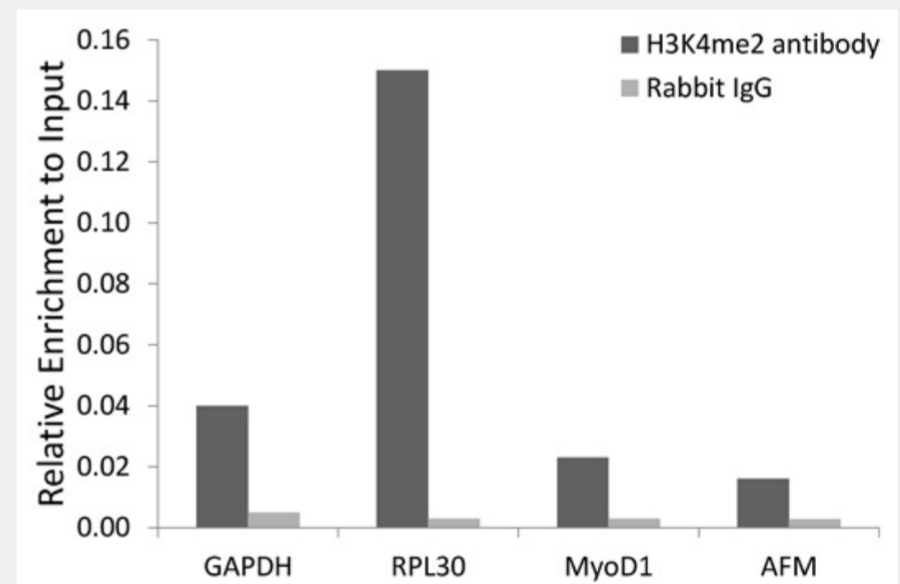
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.



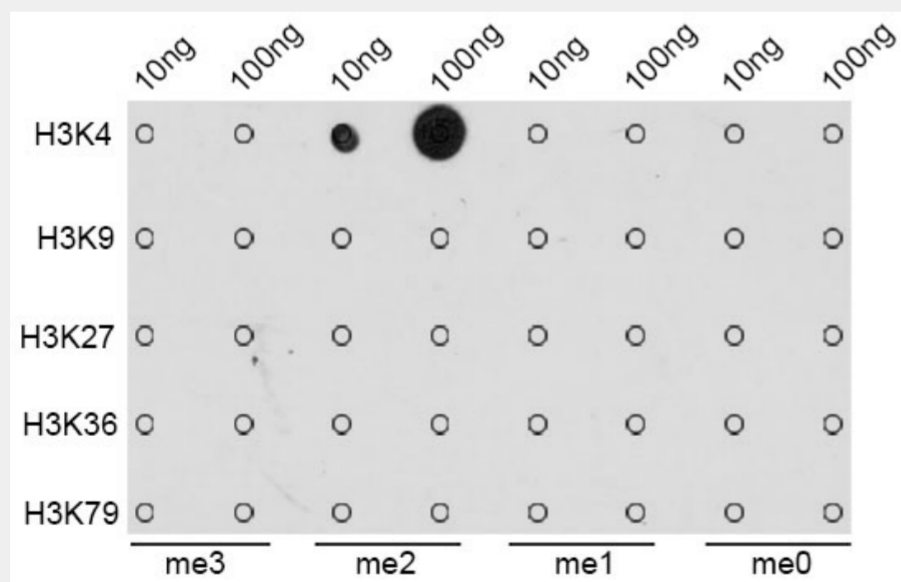
Immunohistochemistry of paraffin-embedded Rat liver using DiMethyl-Histone H3-K4 antibody at dilution of 1:100 (40x lens).



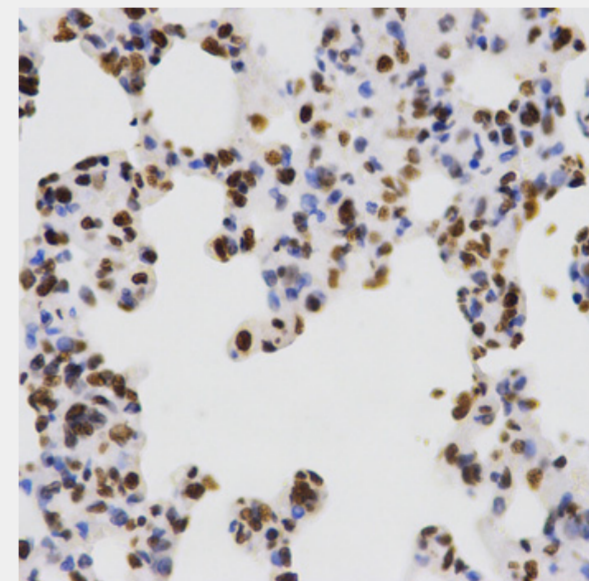
Immunofluorescence analysis of 293T cells using DiMethyl-Histone H3-K4 antibody.  
Blue: DAPI for nuclear staining.



Chromatin immunoprecipitation analysis extracts of 293 cell line, using DiMethyl-Histone H3-K4 antibody 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.

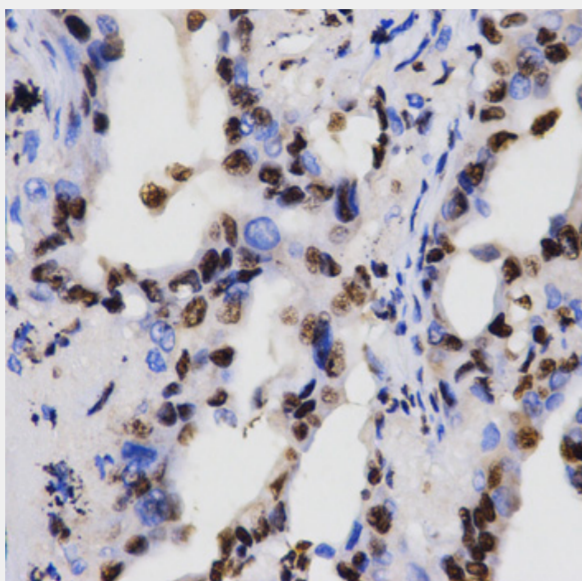


Dot-blot analysis of all sorts of methylation peptides using DiMethyl-Histone H3-K4 antibody.

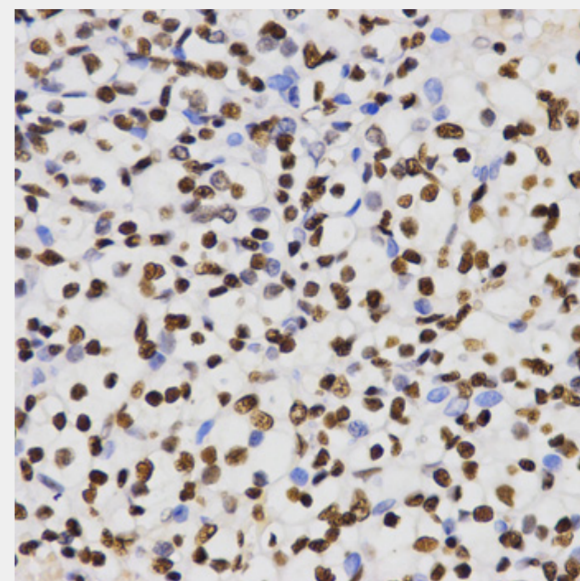


Immunohistochemistry of paraffin-embedded rat lung using DiMethyl-Histone H3-K4 antibody at dilution of 1:200 (40x lens).

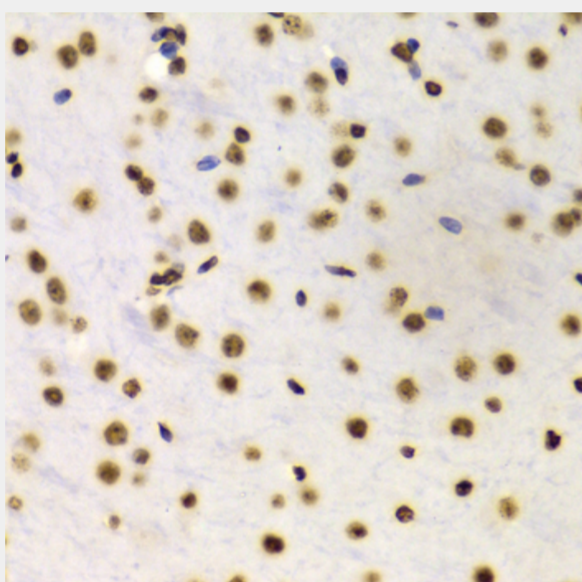




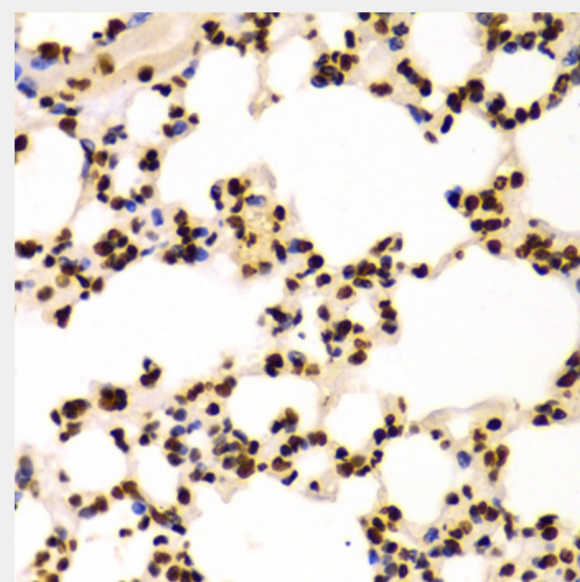
Immunohistochemistry of paraffin-embedded human lung cancer using DiMethyl-Histone H3-K4 antibody at dilution of 1:200 (40x lens).



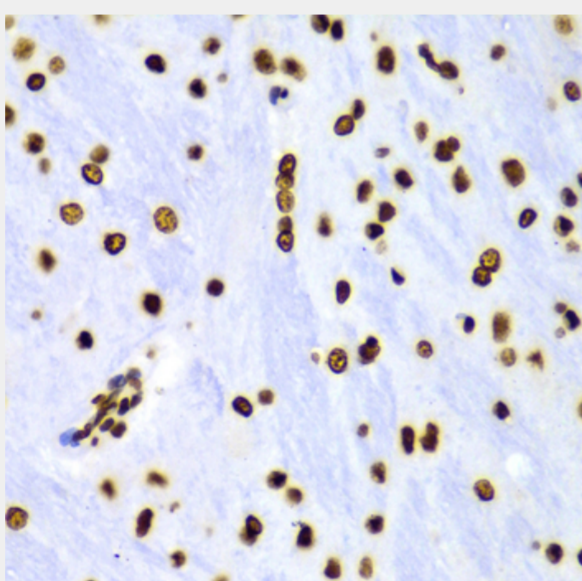
Immunohistochemistry of paraffin-embedded human kidney cancer using DiMethyl-Histone H3-K4 antibody at dilution of 1:200 (40x lens).



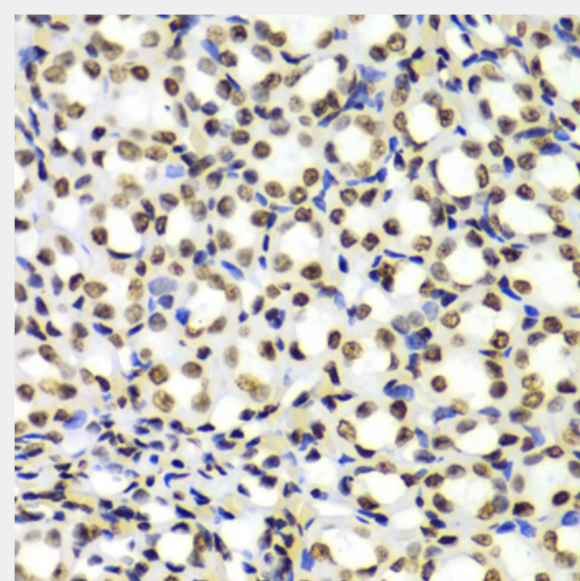
Immunohistochemistry of paraffin-embedded Mouse brain using DiMethyl-Histone H3-K4 antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Mouse lung using DiMethyl-Histone H3-K4 antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Rat brain using DiMethyl-Histone H3-K4 antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Rat kidney using DiMethyl-Histone H3-K4 antibody at dilution of 1:100 (40x lens).

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!