

# DiMethyl-Histone H4-K20 Rabbit mAb

Catalog No.: A22268 **Recombinant**

## Basic Information

### Observed MW

11kDa

### Calculated MW

11kDa

### Category

Primary antibody

### Applications

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

### Cross-Reactivity

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

### CloneNo number

ARC55058

## Recommended Dilutions

<b>DB</b>	1:500 - 1:1000
<b>WB</b>	1:500 - 1:1000
<b>IHC-P</b>	1:500 - 1:1000
<b>IF/ICC</b>	1:500 - 1:1000

## Contact

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## Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy.

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
8359	P62805

### Immunogen

A synthetic dimethylated peptide around K20 of human Histone H4 (NP\_003539.1).

### Synonyms

H4; H4/n; H4C1; H4C2; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4F2; H4FN; FO108; H4-16; H4C11; H4C12; H4C13; H4C15; H4C16; HIST2H4; HIST2H4A; DiMethyl-Histone H4-K20

## Product Information

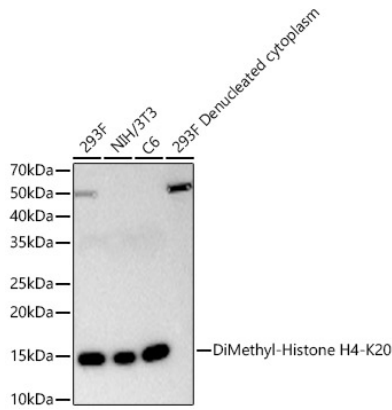
<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Rabbit	IgG	Affinity purification

### Storage

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

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

## Validation Data



Western blot analysis of various lysates, using DiMethyl-Histone H4-K20 Rabbit mAb (A22268) at 1:120000 dilution.

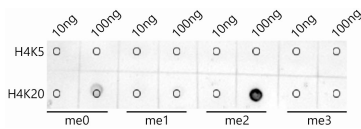
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

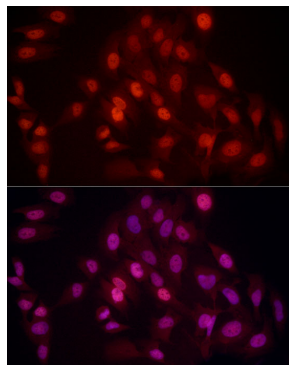
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.

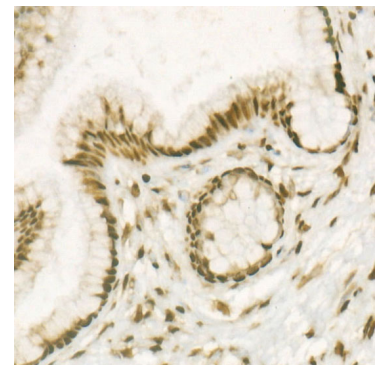


Dot-blot analysis of all sorts of peptides using DiMethyl-Histone H4-K20 Rabbit mAb antibody (A22268) at 1:1000 dilution.

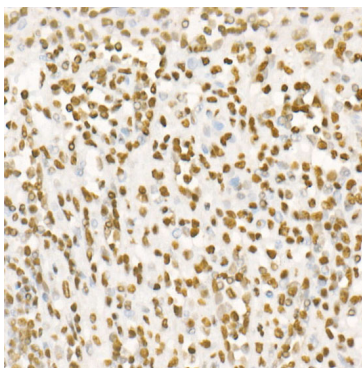


Immunofluorescence analysis of HeLa cells using DiMethyl-Histone H4-K20 Rabbit mAb (A22268) at dilution of 1:600(40x lens).

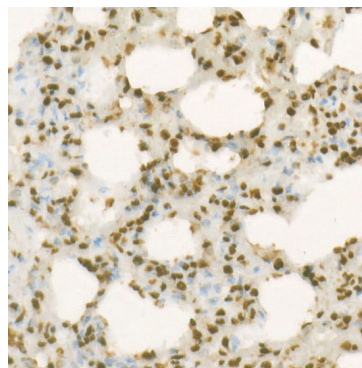
Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded human cervix cancer using DiMethyl-Histone H4-K20 Rabbit mAb (A22268) at dilution of 1:1000(40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded human spleen using DiMethyl-Histone H4-K20 Rabbit mAb (A22268) at dilution of 1:1000(40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded rat lung using DiMethyl-Histone H4-K20 Rabbit mAb (A22268) at dilution of 1:1000(40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.