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# MonoMethyl-Histone H3-R8 Rabbit pAb

**Catalog No.: A3156**

## Basic Information

**Observed MW**
17kDa

**Calculated MW**
16kDa

**Category**
Primary antibody

**Applications**
ELISA,WB,IHC-P,IF/ICC,IP,ChIP,ChIP-seq

**Cross-Reactivity**
Human, Mouse, Rat, Other (Wide Range)

## 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** | 1:100 - 1:500 |
| **IHC-P** | 1:50 - 1:200 |
| **IF/ICC** | 1:50 - 1:200 |
| **IP** | 1:50 - 1:200 |
| **ChIP** | 1:20 - 1:100 |
| **ChIP-seq** | 1:20 - 1:100 |

## Immunogen Information

**Gene ID**
8290/8350

**Swiss Prot**
Q16695/P68431

**Immunogen**
A synthetic monomethylated peptide around R8 of human histone H3 (NP_003520.1).

**Synonyms**
H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; MonoMethyl-Histone H3-R8

## Contact

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## Product Information

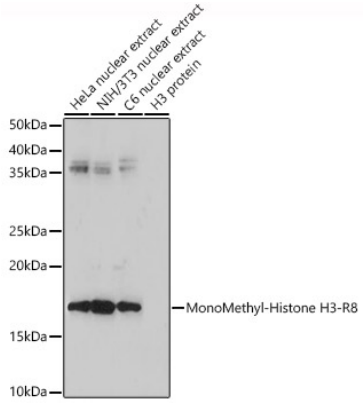
**Source**
Rabbit

**Isotype**
IgG

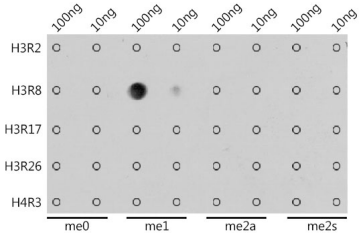
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

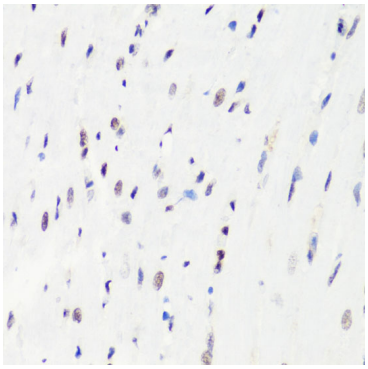
## Validation Data



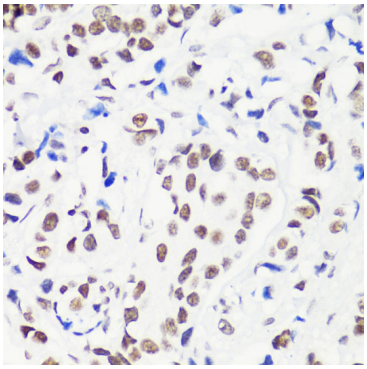

Western blot analysis of extracts of various cell lines, using MonoMethyl-Histone H3-R8 antibody (A3156) at 1:500 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 180s.



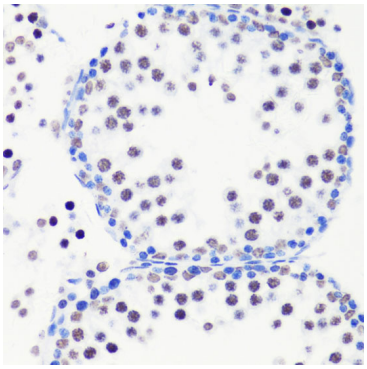

Dot-blot analysis of all sorts of methylation peptides using MonoMethyl-Histone H3-R8 antibody (A3156) at 1:1000 dilution.



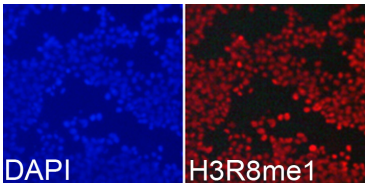
Immunohistochemistry analysis of paraffin-embedded rat heart using MonoMethyl-Histone H3-R8 antibody (A3156) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded human breast cancer using MonoMethyl-Histone H3-R8 antibody (A3156) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded mouse testis using MonoMethyl-Histone H3-R8 antibody (A3156) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.




Immunofluorescence analysis of 293T cells using MonoMethyl-Histone H3-R8 antibody (A3156). Blue: DAPI for nuclear staining.