

**H3K9me1 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV11340****Specification**

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**H3K9me1 Antibody - Product Information**

Application	<b>WB, IF, E, DB</b>
Primary Accession	<a href="#">P68431</a>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>15404</b>

**H3K9me1 Antibody - Additional Information****Gene ID** 8350;8351;8352;8353;8354;8355;8356;8357;8358;8968

Positive Control	<b>IF: HeLa cells, WB: HeLa cells, ELISA: Antigen, ChIP: Human osteosarcoma cells, Dot blot: Histone peptides</b>
Application & Usage	<b>IF: 1:200, WB: 1:1000, ELISA: 1:2000 - 1:3000, Dot Blot: 1:200,000, ChIP: 10 µl/ChIP.</b>

**Other Names**

Histone H3

**Target/Specificity**

H3K9me1

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

In PBS with 0.05% (W/V) sodium azide.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

H3K9me1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## H3K9me1 Antibody - Protein Information

**Name** H3C1 ([HGNC:4766](#))

**Synonyms** H3FA, HIST1H3A

### Function

Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

### Cellular Location

Nucleus. Chromosome.

## H3K9me1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## H3K9me1 Antibody - Images

## H3K9me1 Antibody - Background

Histones are the main constituents of the protein part of chromosomes of eukaryotic cells. They are rich in the amino acids arginine and lysine and have been greatly conserved during evolution. Histones pack the DNA into tight masses of chromatin. Histone tails undergo numerous post-translational modifications, which either directly or indirectly alter chromatin structure to facilitate transcriptional activation or repression or other nuclear processes. In addition to the genetic code, combinations of the different histone modifications reveal the so-called "histone code". Histone methylation and demethylation is dynamically regulated by respectively histone methyl transferases and histone demethylases. Methylation of histone H3K9 is associated with gene repression and heterochromatin formation, although higher levels of H3K9me1 have been found in some more active promoters.