

H3K79me3 polyclonal antibody
Rabbit Polyclonal Antibody
Catalog # ABV11348**Specification**

H3K79me3 polyclonal antibody - Product Information

Application	DB, E, WB
Primary Accession	P68431
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	15404

H3K79me3 polyclonal antibody - Additional Information**Gene ID** 8350;8351;8352;8353;8354;8355;8356;8357;8358;8968

Positive Control	Western blot: HeLa cells, IF: NIH 3T3 cells,
Application & Usage	ELISA: Antigen, Dot blot: Histone Peptides. WB: 1:500, ELISA: 1:500 - 1:1000, Dot Blot: 1:50,000, IF: 1:200.

Other Names
Histone H3**Target/Specificity**
H3K79me3**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**

H3K79me3 polyclonal antibody is for research use only and not for use in diagnostic or therapeutic procedures.

H3K79me3 polyclonal 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

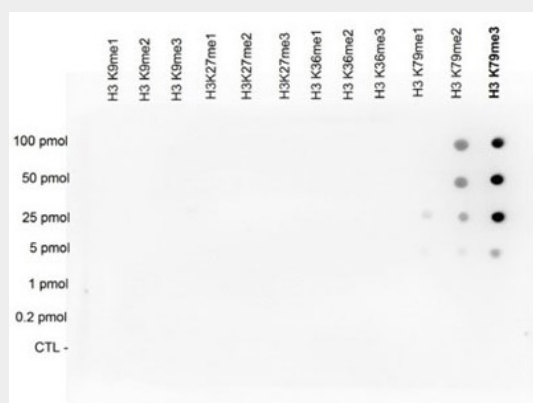
Nucleus. Chromosome.

H3K79me3 polyclonal antibody - Protocols

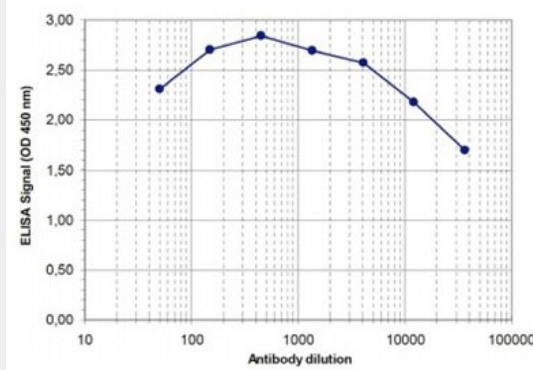
Provided below are standard protocols that you may find useful for product applications.

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

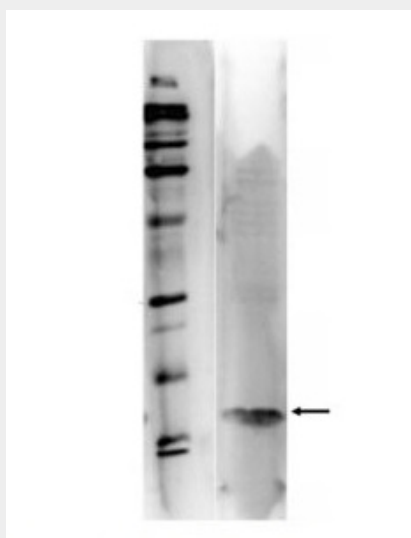
H3K79me3 polyclonal antibody - Images



A Dot Blot analysis was performed to test the cross reactivity of the antibody with peptides containing other modifications of H3 sequences. Other H3 modifications include mono- and trimethylation of the same lysine and mono-, di- and trimethylation of lysine 9, 27 and 36. 100 to 0.2 pmol of the peptide containing the respective histone modification were spotted on a membrane. The Fig shows a high specificity of the antibody for the modification of interest.



To determine the titer, an ELISA was performed using a serial dilution of the antibody. The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution the titer of the antibody was estimated to be 1:70,000.



HeLa cells extracts (15 µg) were analysed by WB blot using the antibody. The molecular weight marker is shown on the left; the location of the protein of interest is indicated on the right.

H3K79me3 polyclonal 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. Two core histones of each class H2A, H2B, H3 and H4 assemble and are wrapped by 146 base pairs of DNA to form one octameric nucleosome. 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.