

H3K9me3 polyclonal antibody - Classic

Purified mouse Polyclonal Antibody

Catalog # ADN10260

Specification

H3K9me3 polyclonal antibody - Classic - Product Information

Application	CHIP, DB, WB
Primary Accession	P68431
Reactivity	Human
Host	Mouse
Clonality	Polyclonal
Calculated MW	15404

H3K9me3 polyclonal antibody - Classic - Additional Information

Gene ID 8350;8351;8352;8353;8354;8355;8356;8357;8358;8968

Other Names

Histone H3.1, Histone H3/a, Histone H3/b, Histone H3/c, Histone H3/d, Histone H3/f, Histone H3/h, Histone H3/i, Histone H3/j, Histone H3/k, Histone H3/l, HIST1H3A, H3FA

Target/Specificity

H3K9me3

Precautions

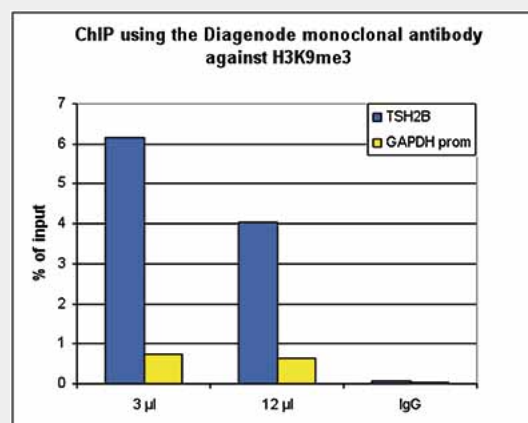
H3K9me3 polyclonal antibody - Classic is for research use only and not for use in diagnostic or therapeutic procedures.

H3K9me3 polyclonal antibody - Classic - Protein Information

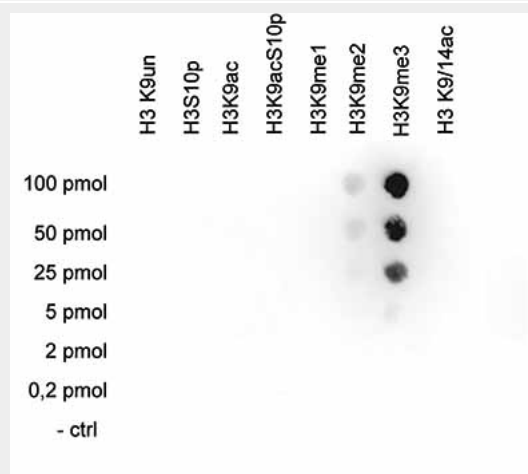
Name H3C1 ([HGNC:4766](#))

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



ChIP assays were performed using human HeLa cells, the Diagenode monoclonal antibody against H3K9me3 (cat. No. SN-146-100) and optimized PCR primer sets for qPCR. ChIP was performed with the "LowCell# ChIP" kit (cat. No. kch-maglow-016), using sheared chromatin from 10,000 cells. Two different quantities of antibody (3 and 12 µl per ChIP experiment) were analysed. IgG (1 µg/IP) was used as negative IP control. QPCR was performed with primers for the GAPDH promoter and for the inactive gene TSH2B. Figure 1 shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



nucleosome remodeling.

Cellular Location

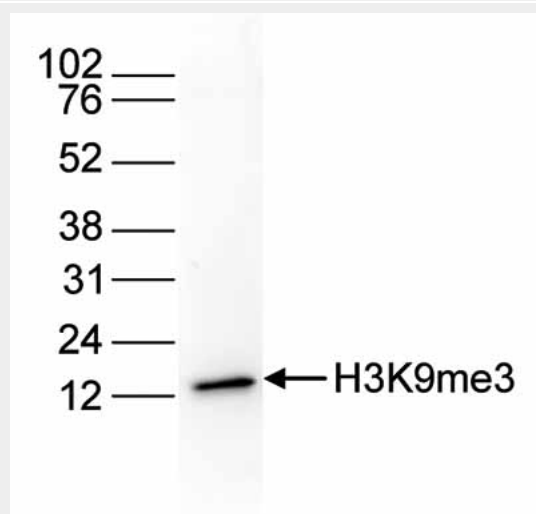
Nucleus. Chromosome.

H3K9me3 polyclonal antibody - Classic - 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](#)

A Dot Blot analysis was performed to test the cross reactivity of the Diagenode monoclonal antibody against H3K9me3 (cat. No. SN-146-100) with peptides containing different modifications or unmodified sequences of histone H3. One hundred to 0.2 pmol of peptide containing the respective histone modification were spotted on a membrane. The antibody was used at a dilution of 1:10,000. Figure 2 shows a high specificity of the antibody for the modification of interest.



Histone extracts of HeLa cells (15 µg) were analysed by Western blot using the Diagenode monoclonal antibody against H3K9me3 (cat. No. SN-146-100) diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. The position of the protein of interest is indicated on the right; the marker (in kDa) is shown on the left.