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H4K20me1 polyclonal antibody - Classic

Purified mouse Polyclonal Antibody
Catalog # ADN10261

Specification

H4K20me1 polyclonal antibody - Classic - Product Information

Application	**CHIP, DB, WB**
Primary Accession	P62805
Reactivity	**Human**
Host	**Mouse**
Clonality	**Polyclonal**
Calculated MW	**11367**

H4K20me1 polyclonal antibody - Classic - Additional Information

Gene ID 121504;554313;8294;8359;8360;8361;8362;8363;8364;8365;8366;8367;8368;8370

Other Names
Histone H4, HIST1H4A, H4/A, H4FA

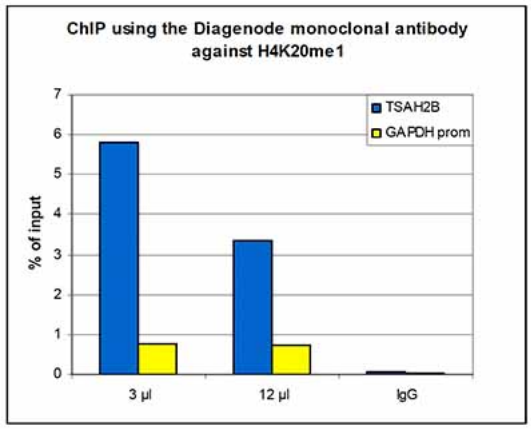
Target/Specificity
H4K20me1

Precautions
H4K20me1 polyclonal antibody - Classic is for research use only and not for use in diagnostic or therapeutic procedures.

H4K20me1 polyclonal antibody - Classic - Protein Information

Name H4C1

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.



ChIP assays were performed using human HeLa cells, the Diagenode monclonal antibody against H4K20me1 (cat. No. SN-147-100) 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).

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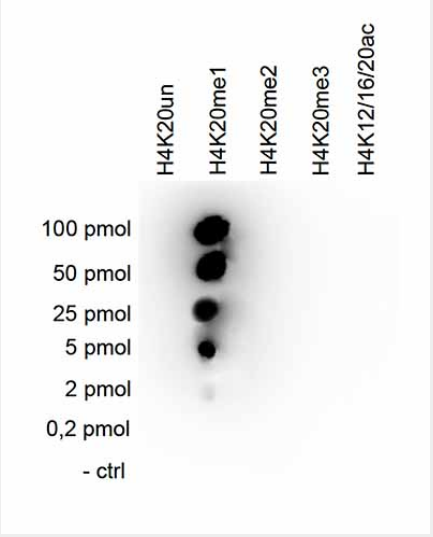
Cellular Location
Nucleus. Chromosome.

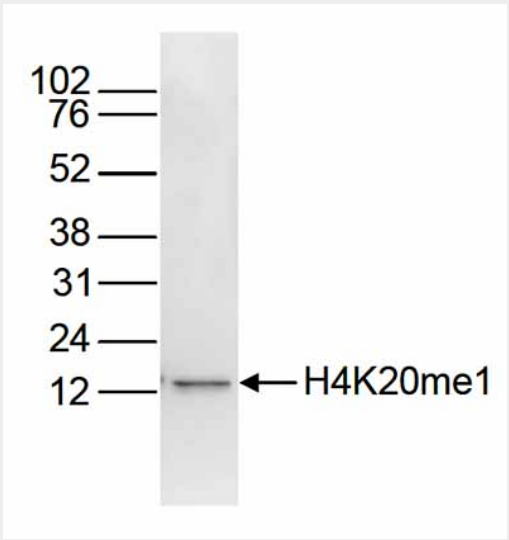
H4K20me1 polyclonal antibody - Classic - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



To check the specificity of the Diagenode monoclonal antibody against H4K20me1 (cat. No. SN-147-100) a Dot Blot was performed with with peptides containing different modifications or unmodified sequences of histone H4. 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 H4K20me1 (cat. No. SN-147-100) 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.