

H4K20me3 polyclonal antibody - Classic

Purified mouse Polyclonal Antibody

Catalog # ADN10262

Specification

H4K20me3 polyclonal antibody - Classic - Product Information

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

H4K20me3 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

H4K20me3

Precautions

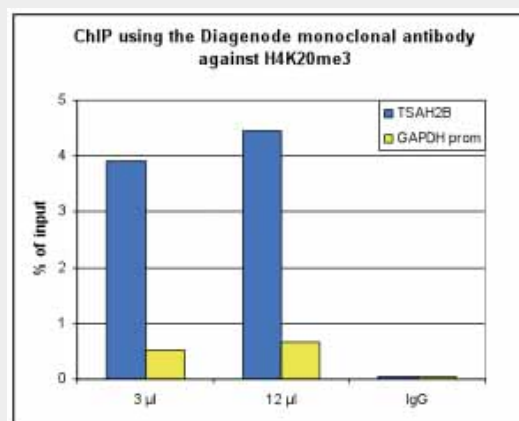
H4K20me3 polyclonal antibody - Classic is for research use only and not for use in diagnostic or therapeutic procedures.

H4K20me3 polyclonal antibody - Classic - Protein Information

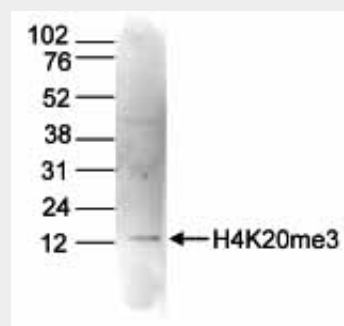
Name H4C1

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 monoclonal antibody against H4K20me3 (cat. No. SN-148-100) 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).



Histone extracts of HeLa cells (15 µg) were analysed by Western blot using the Diagenode monoclonal antibody against H4K20me3 (cat. No. SN-148-100) diluted 1:50

Cellular Location

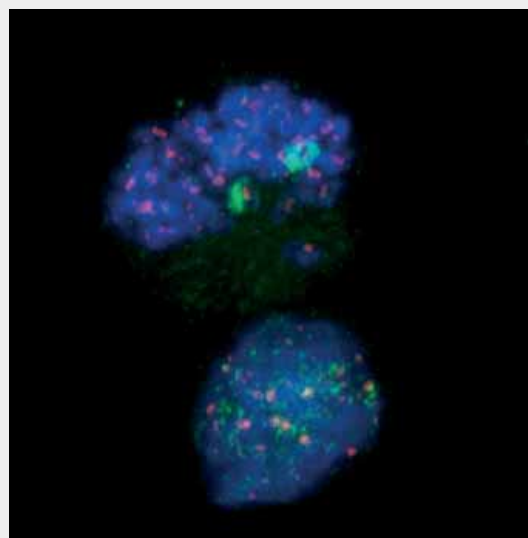
Nucleus. Chromosome.

H4K20me3 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](#)

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.



HEK293T cells were stained with the Diagenode antibody against H4K20me3 (cat. No. SN-148-100, green), with human autoantibodies against the centromeres (CREST, Cortex Biochem, pink) and with DAPI (blue). Cells were fixed with 4% paraformaldehyde and blocked with PBS containing 0.1% Tween, 2% BSA, and 5% normal goat serum. Cells were immunofluorescently labeled with the H4K20me3 antibody (diluted 1:200 in blocking solution) and the CREST antibody (diluted 1:1000 in blocking solution) by overnight incubation at 4°C. Subsequently cells were labeled with goat-anti-mouse antibody conjugated to Alexa488 and goat-anti-human antibody conjugated to Alexa633 (both diluted 1:200 in blocking solution and incubated for 1 hour at RT). Cells were mounted with Vectashield containing DAPI. Immunofluorescence was performed by Dr. E. Baart, Erasmus University, Rotterdam, the Netherlands.