

H3K14ac polyclonal antibody - Classic

Purified rabbit polyclonal Antibody

Catalog # ADN10287

Specification

H3K14ac polyclonal antibody - Classic - Product Information

Application	CHIP, E, DB, WB
Primary Accession	Q93081
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

H3K14ac polyclonal antibody - Classic - Additional Information

Target/Specificity

H3K14ac

Precautions

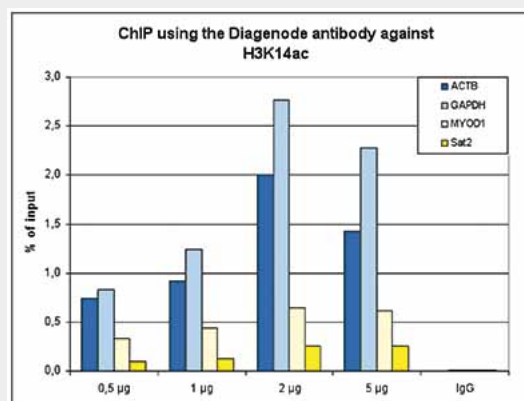
H3K14ac polyclonal antibody - Classic is for research use only and not for use in diagnostic or therapeutic procedures.

H3K14ac polyclonal antibody - Classic - Protein Information

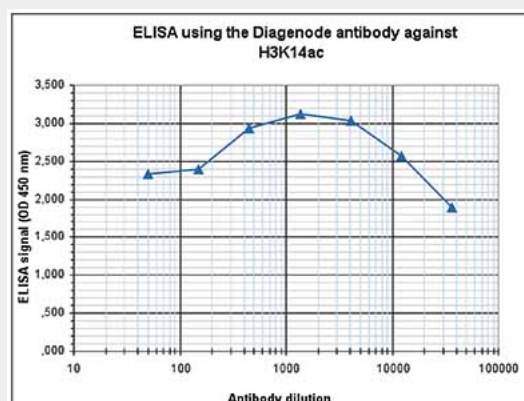
H3K14ac polyclonal antibody - Classic - Protocols

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

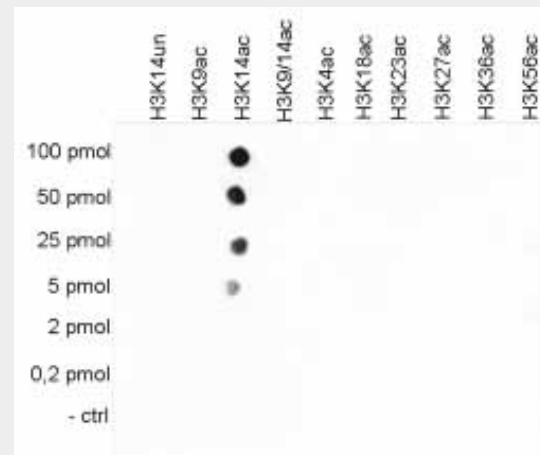
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



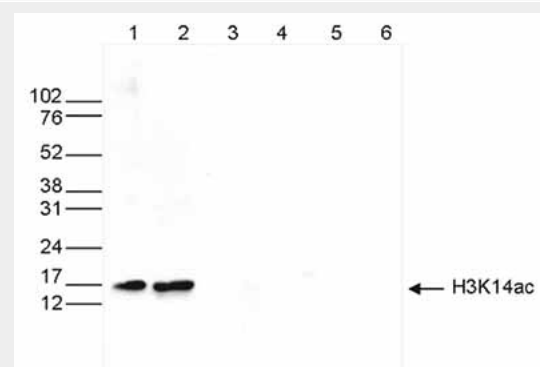
ChIP assays were performed using human HeLa cells, the Diagenode antibody against H3K14ac (cat. No. ADN10287) and optimized PCR primer sets for qPCR. ChIP was performed with the "iDeal ChIP-seq" kit (cat. No. C01010055), using sheared chromatin from 1.5 million cells. A titration of the antibody consisting of 0.5, 1, 2 and 5 µg per ChIP experiment was analysed. IgG (1 µg/IP) was used as negative IP control. QPCR was performed with primers for a region approximately 1 kb upstream of the ACTB and GAPDH promoters, used as positive controls, and for the coding region of the inactive MYOD1 gene and the Sat2 satellite repeat, used as negative controls. Figure 1 shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



To determine the titer of the antibody, an ELISA was performed using a serial dilution of the Diagenode antibody directed against H3K14ac (cat. No. ADN10287) in antigen coated wells. The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution (Figure 2), the titer of the antibody was estimated to be 1:73,200.



To test the cross reactivity of the Diagenode antibody against H3K14ac (cat. No. ADN10287), a Dot Blot analysis was performed with peptides containing other histone modifications and the unmodified H3K14. One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:10,000. Figure 3 shows a high specificity of the antibody for the modification of interest.



Western blot was performed on whole cell (25 µg, lane 1) and histone extracts (15 µg, lane 2) from HeLa cells, and on 1 µg of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the Diagenode antibody against H3K14ac (cat. No. ADN10287). The antibody was 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.