10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

H3K36ac polyclonal antibody - Classic

Purified rabbit polyclonal Antibody

Catalog # ADN10284

Specification

H3K36ac polyclonal antibody - Classic - Product Information

Application	**CHIP, E, DB, WB**
Primary Accession	O93081
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**

H3K36ac polyclonal antibody - Classic - Additional Information

Target/Specificity
H3K36ac

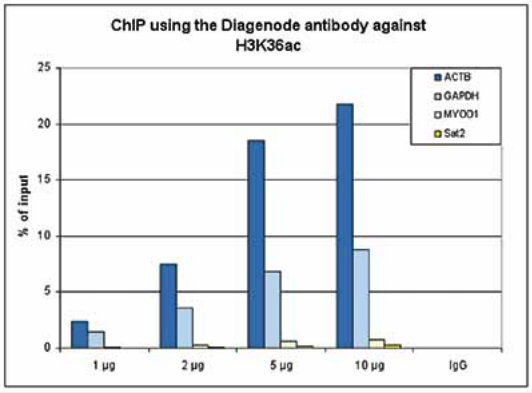
Precautions
H3K36ac polyclonal antibody - Classic is for research use only and not for use in diagnostic or therapeutic procedures.

H3K36ac polyclonal antibody - Classic - Protein Information

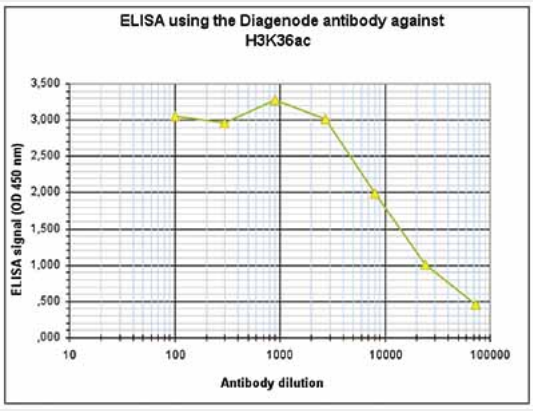
H3K36ac polyclonal antibody - Classic - Protocols

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



ChIP assays were performed using human HeLa cells, the Diagenode antibody against H3K36ac (cat. No. ADN10284) 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 1, 2, 5 and 10 µg per ChIP experiment was analysed. IgG (2 µg/IP) was used as negative IP control. QPCR was performed with primers for a region approximately 1 kb upstream of the ACTB promoter and for the GAPDH promoter, 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).



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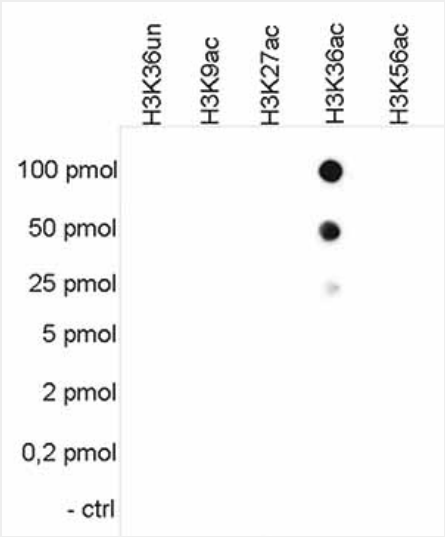
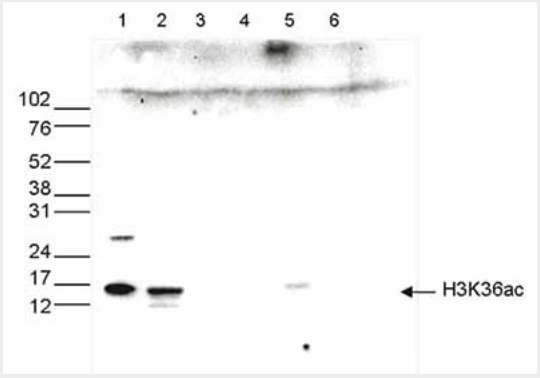
To determine the titer of the antibody, an ELISA was performed using a serial dilution of the Diagenode antibody directed against H3K36ac (cat. No. ADN10284) in antigen coated wells. The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution (Figure 3), the titer of the antibody was estimated to be 1:10,000.



To test the cross reactivity of the Diagenode antibody against H3K36ac (cat. No. ADN10284), a Dot Blot analysis was performed with peptides containing other histone modifications and the unmodified H3K36. 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 4 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

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Diagenode antibody against H3K36ac (cat. No. ADN10284). 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.