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# H3K27ac polyclonal antibody

**Purified rabbit Polyclonal Antibody**
**Catalog # ADN10256**

## Specification

### H3K27ac polyclonal antibody - Product Information

| | |
|---|---|
| Application | **E, DB, WB, IF** |
| Primary Accession | P68431 |
| Reactivity | **Human, Mouse** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **15404** |

### H3K27ac polyclonal antibody - 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

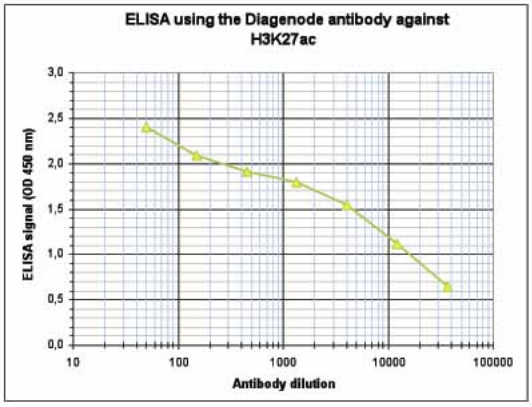
**Target/Specificity**
H3K27ac

**Precautions**
H3K27ac polyclonal antibody is for research use only and not for use in diagnostic or therapeutic procedures.

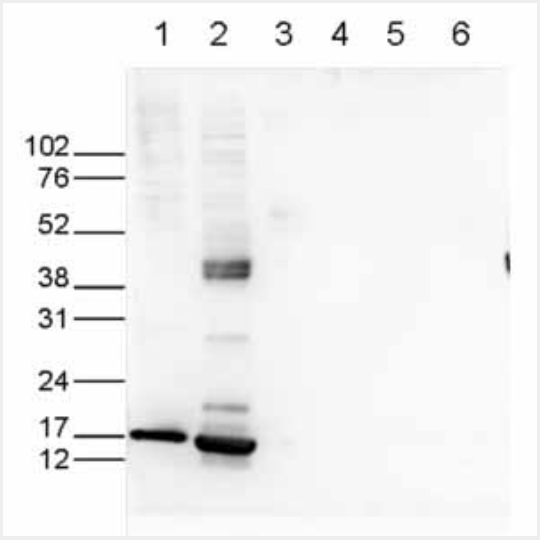
### H3K27ac polyclonal antibody - Protein Information

**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




To determine the titer of the antibody, an ELISA was performed using a serial dilution of the Diagenode antibody against H3K27ac (Cat. No. ADN10256). 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 1:8,300.




To test the cross reactivity of the Diagenode antibody against H3K27ac (Cat. No. ADN10256), a Dot Blot analysis was performed with peptides containing other histone modifications and the unmodified H3K27. One hundred to 0.2 pmol of the

nucleosome remodeling.

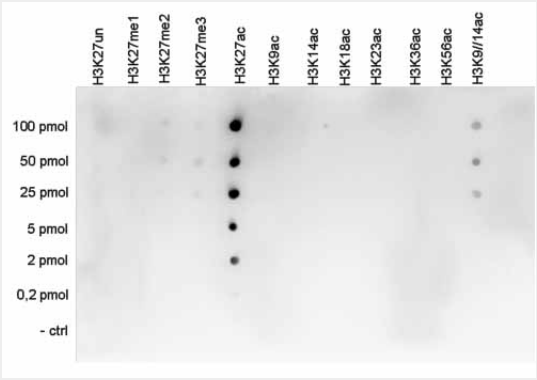
**Cellular Location**
Nucleus. Chromosome.

### H3K27ac polyclonal antibody - Protocols

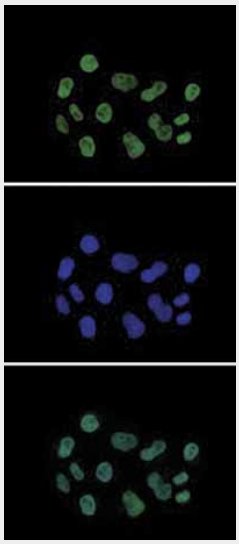
Provided below are standard protocols that you may find useful for product applications.

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

respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:20,000. 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 Diagenode antibody against H3K27ac (Cat. No. C1541196). The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. The marker (in kDa) is shown on the left.



HeLa cells were stained with the Diagenode antibody against H3K27ac (Cat. No. ADN10256) and with DAPI. Cells were fixed with 4% formaldehyde for 10’ and blocked with PBS/ TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H3K27ac antibody (top) diluted 1:500 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa488. The middle

panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown at the bottom.