

H3K18ac Antibody

ALTERNATE NAMES: Histone H3

CATALOG #: 6867-50

AMOUNT: 50 µl

HOST/ISOTYPE: Rabbit

IMMUNOGEN: This antibody has been raised against histone H3 containing the acetylated lysine 18 (H3K18ac), using a KLH-conjugated synthetic peptide.

FORM: Liquid

FORMULATION: In PBS with 0.05% (W/V) sodium azide.

PURIFICATION: Whole antiserum from rabbit

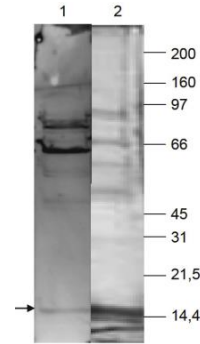
SPECIES REACTIVITY: Human.

STORAGE CONDITIONS: Store at -20°C; for long storage, store at -80°C. Avoid multiple freeze-thaw cycles.

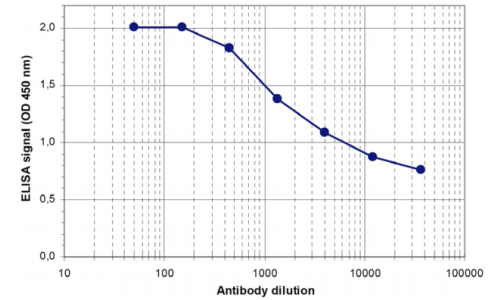
DESCRIPTION: Histones are the main constituents of the protein part of chromosomes of eukaryotic cells. They are rich in the amino acids arginine and lysine and have been greatly conserved during evolution. Histones pack the DNA into tight masses of chromatin. Two core histones of each class H2A, H2B, H3 and H4 assemble and are wrapped by 146 base pairs of DNA to form one octameric nucleosome. Histone tails undergo numerous post-translational modifications, which either directly or indirectly alter chromatin structure to facilitate transcriptional activation or repression or other nuclear processes. In addition to the genetic code, combinations of the different histone modifications reveal the so-called "histone code". Histone methylation and demethylation is dynamically regulated by respectively histone methyl transferases and histone demethylases. Acetylation of histone H3 is associated with active gene transcription.

APPLICATION: WB: 1:250, ELISA: 1:100, Dot Blot: 1:1,000.

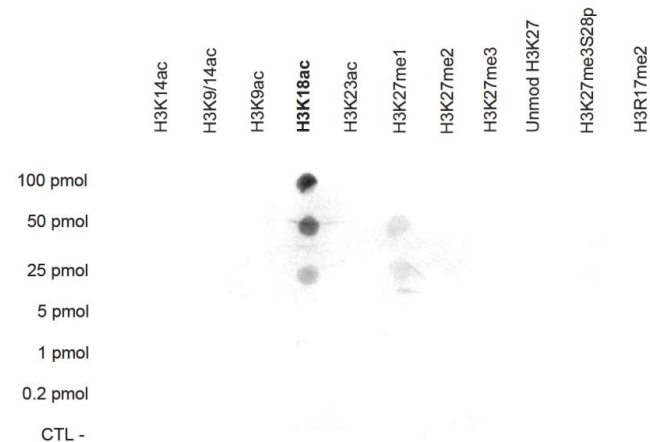
Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



HeLa cells treated with butyrate and histone extracts (15 µg) were analysed by WB blot using the antibody.



To determine the titer, an ELISA was performed using a serial dilution of the antibody. The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution the titer of the antibody was estimated to be 1:8,800.



A Dot Blot analysis was performed to test the cross reactivity of the antibody with peptides containing other modifications of histone H3 and an unmodified H3 sequence. 100 to 0.2 pmol of the peptide containing the respective histone modification were spotted on a membrane. The Fig shows a high specificity of the antibody for the modification of interest.

RELATED PRODUCTS:

- H3R17me2 Antibody (Cat # 6803-50)
- H3K9me2 Antibody (Cat # 6804-50)
- H3K36me2 Pan Antibody (Cat # 6805-50)
- H Pan Antibody (Cat # 6806-50)

FOR RESEARCH USE ONLY! Not to be used on humans.

