

# Histone H3K18ac (Acetyl Lys18) antibody - ChIP grade

**Cat. No. GTX60814**

<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Application</b>	WB, ICC/IF, Dot, ELISA, ChIP assay
<b>Reactivity</b>	Human, Mouse

**Package**

50 µg

## APPLICATION

### Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500
ICC/IF	1:200
Dot	1:5,000
ELISA	1:100
ChIP assay	0.5-5 µg

Not tested in other applications.

## PROPERTIES

<b>Form</b>	Liquid
<b>Buffer</b>	PBS
<b>Preservative</b>	0.05% Sodium azide, 0.05% ProClin 300
<b>Storage</b>	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
<b>Concentration</b>	0.81 mg/ml (Please refer to the vial label for the specific concentration.)
<b>Immunogen</b>	The region of histone H3 containing the acetylated lysine 18 (H3K18ac), using a KLH-conjugated synthetic peptide.
<b>Purification</b>	Purified by affinity chromatography
<b>Conjugation</b>	Unconjugated

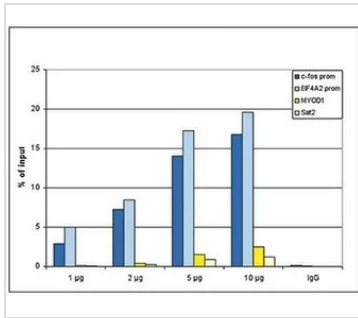
### Note

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

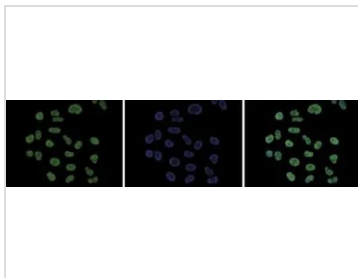
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**DATA IMAGES**

**GTX60814 ChIP assay Image**

ChIP analysis of sheared chromatin from  $10^6$  HeLa cells treated with TSA using GTX60814 Histone H3K18ac (Acetyl Lys18) antibody - ChIP grade. A titration consisting of 1, 2, 5 and 10  $\mu$ g of antibody per ChIP experiment was analyzed. IgG (2  $\mu$ g/IP) was used as a negative IP control. Quantitative PCR was performed with primers for the promoters of the active EIF4A2 and c-fos genes, used as positive controls, and for the inactive MYOD1 gene and the Sat2 satellite repeat, used as negative controls. This figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).

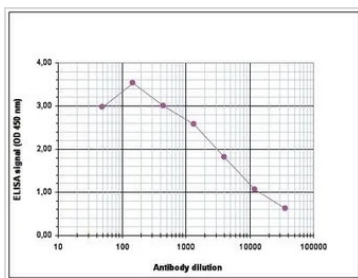

**GTX60814 ICC/IF Image**

ICC/IF analysis of 4% paraformaldehyde fixed HeLa cells using GTX60814 Histone H3K18ac (Acetyl Lys18) antibody - ChIP grade.

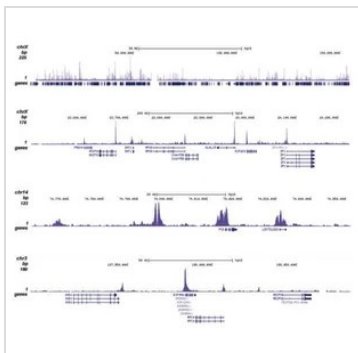
Green : Primary antibody

Blue : DAPI

Dilution : 1:200


**GTX60814 ELISA Image**

ELISA analysis of peptide containing the histone modification of interest using GTX60814 Histone H3K18ac (Acetyl Lys18) antibody - ChIP grade.


**GTX60814 ChIP assay Image**

ChIP analysis of HeLa cells treated with TSA using GTX60814 Histone H3K18ac (Acetyl Lys18) antibody - ChIP grade. The IP'd DNA was subsequently analysed on an Illumina Genome Analyzer. Library preparation, cluster generation and sequencing were performed according to the manufacturer's instructions. The 36 bp tags were aligned to the human genome using the ELAND algorithm. Figure 2 shows the peak distribution along the complete human X-chromosome and a zoomin to a 600 kb region (figure 2A and B), and in two regions on chromosome 14 and 3 surrounding the c-fos and EIF4A2 positive control genes (figure 2C and D, respectively).

Antibody amount : 1  $\mu$ g



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