Histone H4K5ac (acetyl Lys5) antibody - ChIP grade

Cat. No. GTX60335

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Applications	WB, ICC/IF, Dot, ELISA, ChIP assay
Reactivity	Human, Mouse

Package
50 µg

Applications

Application Note

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

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

Not tested in other applications.

Properties

Form	Liquid
Buffer	PBS
Preservative	0.05% Sodium azide, 0.05% ProClin 300
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	1.8 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	The region of histone H4 containing the acetylated lysine 5 (H4K5ac), using a KLH-conjugated synthetic peptide.
Purification	Purified by affinity chromatography
Conjugation	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. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

For full product information, images and publications, please visit our website.

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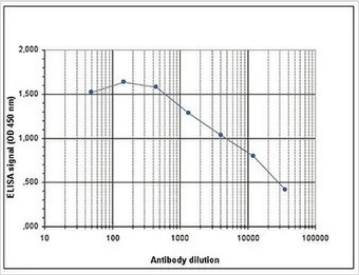
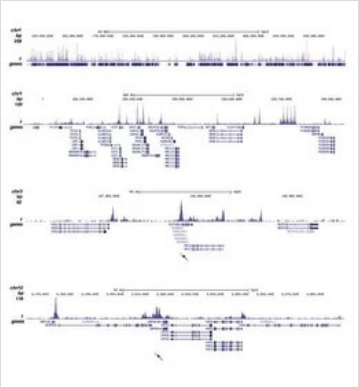
DATA IMAGES



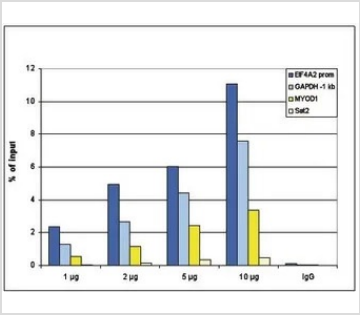
GTX60335 ELISA Image

ELISA analysis of peptide containing the histone modification of interest using GTX60335 Histone H4K5ac (acetyl Lys5) antibody - ChIP grade.



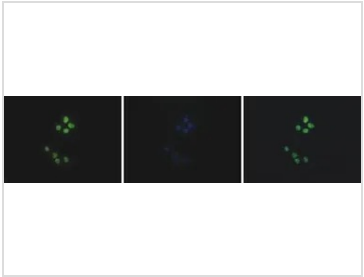
GTX60335 ChIP assay Image

ChIP analysis of sheared chromatin from 10^6 HeLa cells using GTX60335 Histone H4K5ac (acetyl Lys5) 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 signal distribution along the complete length of chromosome 1 (figure 2A) and a zoomin to a 500 kb region (figure 2B). Figure 2C and D show the enrichment in two genomic regions on chromosome 3 and 12, respectively, containing EIF4A2 and GAPDH positive controls. The position of the amplicon used for validating the QPCR results is shown with an arrow
Antibody amount : 1µg



GTX60335 ChIP assay Image

ChIP analysis of sheared chromatin from 10^6 HeLa cells using GTX60335 Histone H4K5ac (acetyl Lys5) antibody - ChIP grade. 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 promoter of the active gene EIF4A2 and for a region 1 kb upstream of the GAPDH gene, used as positive controls, and for the inactive MYOD1 gene and the Sat2 satellite repeat region 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).



GTX60335 ICC/IF Image

ICC/IF analysis of 4% paraformaldehyde fixed HeLa cells using GTX60335 Histone H4K5ac (acetyl Lys5) antibody - ChIP grade.
Green : Primary antibody
Blue : DAPI
Dilution : 1:500

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