

Histone H3K4me1 (Mono-methyl Lys4) antibody - ChIP grade

Cat. No. GTX60818

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

Reference (1)
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	1:5,000/1:2,000
ELISA	1:400
ChIP assay	0.5-5 µg
Protein Array	Assay dependent

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 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1.5 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	The region of histone H3 containing the monomethylated lysine 4 (H3K4me1), using a KLH-conjugated synthetic peptide.
Purification	Purified by affinity chromatography
Conjugation	Unconjugated

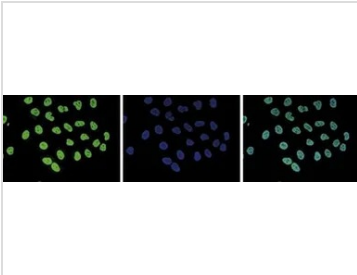


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Note

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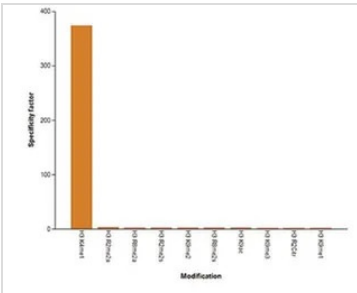
DATA IMAGES

GTx60818 ICC/IF Image

ICC/IF analysis of 4% paraformaldehyde fixed HeLa cells using GTx60818 Histone H3K4me1 (Mono-methyl Lys4) antibody - ChIP grade.

Green : Primary antibody

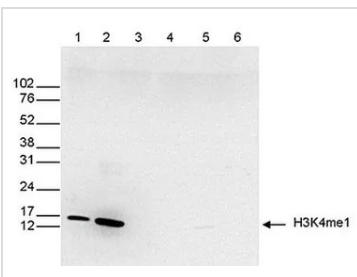
Blue : DAPI

Dilution : 1:200


GTx60818 Protein Array Image

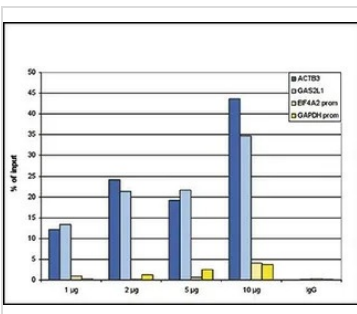
Protein Array analysis of an array containing 384 peptides with different combinations of modifications from histone H3, H4, H2A and H2B using GTx60818 Histone H3K4me1 (Mono-methyl Lys4) antibody - ChIP grade. This figure shows the specificity factor, calculated as the ratio of the average intensity of all spots containing the mark, divided by the average intensity of all spots not containing the mark.

Dilution : 1:2,000


GTx60818 WB Image

WB analysis of 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 GTx60818 Histone H3K4me1 (Mono-methyl Lys4) antibody - ChIP grade.

Dilution : 1:500


GTx60818 ChIP assay Image

ChIP analysis of sheared chromatin from 10⁶ K562 cells using GTx60818 Histone H3K4me1 (Mono-methyl Lys4) antibody - ChIP grade. A titration consisting of 1, 2, 5 and 10 µg of antibody per ChIP experiment was analyzed. IgG (1 µg/IP) was used as a negative IP control. Quantitative PCR was performed with primers for a region surrounding the ACTB and GAS2L1 gene, respectively, used as positive controls, and for the promoters of the GAPDH and EIF4A2 genes, used as negative controls. Figure 2 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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