Histone H3K27me1 (Mono-methyl Lys27) antibody - ChIP grade

Cat. No. GTX60350

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

Package
50 µg

Applications

Application Note

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

Suggested dilution	Recommended dilution
WB	Assay dependent
ICC/IF	Assay dependent
Dot	Assay dependent
ELISA	Assay dependent
ChIP assay	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 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	1.93 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Histone H3 containing the monomethylated lysine 27 (H3K27me1), 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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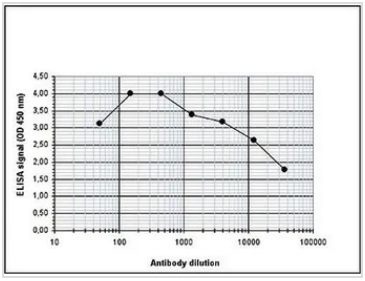
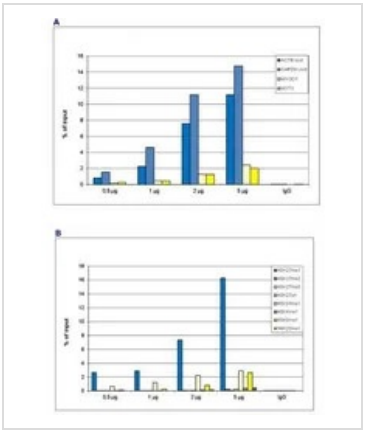
DATA IMAGES



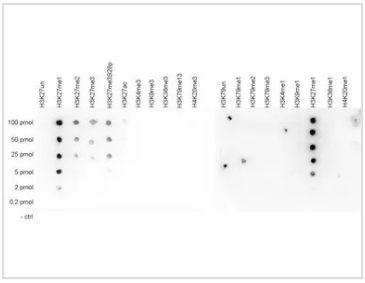
GTX60350 ELISA Image

ELISA analysis of peptide containing the histone modification of interest using GTX60350 Histone H3K27me1 (Mono-methyl Lys27) antibody - ChIP grade.



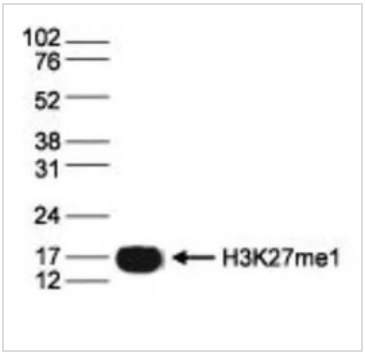
GTX60350 ChIP assay Image

ChIP analysis of sheared chromatin from $5x10^5$ K562 cells using GTX60350 Histone H3K27me1 (Mono-methyl Lys27) antibody - ChIP grade. A titration of the antibody consisting of 0.5, 1, 2 and 5 µg per ChIP experiment was analysed. IgG (2 µg/IP) was used as negative IP control. Figure 1A. Quantitative PCR was performed with primers for the coding sequence of the active GAPDH and ACTB genes, used as positive controls, and for the inactive MYOD1 and MYT1 genes, used as negative controls. The graph shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis). Figure 1B. Recovery of the nucleosomes carrying the H3K27me1, H3K27me2, H3K27me3, H3K4me1, H3K9me1, H3K36me1, H4K20me1 and the unmodified H3K4 as determined by qPCR. The figure clearly shows the antibody is specific in ChIP for the H3K27me1 modification with some slight cross reaction with H3K36me1 and H3K9me1 at higher concentrations.



GTX60350 Dot Image

Dot blot analysis of 0.2 - 100 pmol of the peptides containing other modifications and unmodified sequences of histone H3 and H4 using GTX60350 Histone H3K27me1 (Mono-methyl Lys27) antibody - ChIP grade.
Dilution : 1:20,000



GTX60350 WB Image

WB analysis of histone extracts (15 µg) from HeLa cells using GTX60350 Histone H3K27me1 (Mono-methyl Lys27) antibody - ChIP grade.
Dilution : 1:1,000

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