

ChIP Validated H3K4me3 (Clone RM137) Antibody and Positive Primer Set



Catalogue no: 900014

Chromatrap®'s ChIP Validated H3K4me3 Antibody and Positive Primer Set provides a complete set of tools to assist with a successful ChIP assay. Including: H3K4me3 antibody, control rabbit IgG, and a positive primer set. The ChIP Validated H3K4me3 Antibody and Positive Primer Set is not suitable for use with non-human species.

Background:

Histone 3 (H3) is one of the core histone proteins, comprising the protein component of chromatin. H3 is ubiquitous within chromosomes and can be found bound to most gene sequences throughout the genome. Tri-methylation of lysine 4 is associated with transcriptional start sites and gene activation.

A rabbit IgG is included in this Antibody Primer Set as a negative control for the ChIP experiment.

H3K4me3 is associated with activating transcription; the positive primer set included in this Antibody Primer Set recognises a gene associated with active transcription.

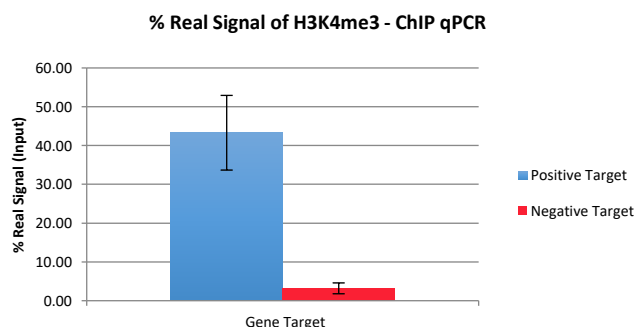
Suggested Usage:

Component	Suggested Dilution	Figure
H3K4me3	2:1 (antibody: chromatin)	1
Rabbit IgG	2:1 (antibody: chromatin)	1
Positive Primer Set	Dilute from 4µM (provided) to 1µM working concentration	

Please note: Optimal dilutions should be determined by the user. These volumes are stated as guidelines only.

Fig 1. H3K4me3 ChIP qPCR

Chromatin immunoprecipitation (ChIP) assays were performed using the Chromatrap® standard ChIP spin column sonication kit for qPCR (Cat no. 500071) with 1µg of chromatin from Hec50 cells and 2µg of Anti-H3K4me3 antibody. qPCR was used to analyse the enrichment of H3K4me3 onto the positive gene target locus compared with the negative gene target locus.



Advancements in Epigenetics

*This product is for research use only. There is a possibility that results may vary between antibody lots.



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Applications: ChIP

Concentration: 1mg/ml

Size: 50µl

Specificity: Human

Source: Rabbit

Type: Monoclonal

Purification: Protein A (affinity purified)

Storage Conditions: H3K4me3 should be stored at -20°C. Rabbit IgG, and the positive primer set should all be stored at -20°C (*Avoid multiple freeze/thaw cycles as this may denature the antibody and degrade the primer sets*)

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