

ChIP Validated H3K4me1 (Clone RM140) Antibody with Positive and Negative Primer Sets



Catalogue no: 900023

Chromatrap®'s ChIP Validated H3K4me1 Antibody with Positive and Negative Primer Sets provides a complete set of tools to assist with a successful ChIP assay. Including: H3K4me1 antibody, control rabbit IgG, positive and negative primer sets. The ChIP Validated H3K4me1 Antibody with Positive and Negative Primer Sets 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. Monomethylation of lysine 4 on histone 4 (H3K4me1) is a histone modification associated with open chromatin and active transcription. The presence of H3K4me1 generally indicates an enhancer region of DNA.

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

The H3K4me1 positive primer set recognises the promoter of the GAPDH gene, associated with active transcription and is a suitable target for this antibody. The negative primer set recognises the transcription start site of GAPDH.

Suggested Usage:

Component	Suggested Dilution	Figure
H3K4me1	2:1 (antibody: chromatin)	1
Rabbit IgG	2:1 (antibody: chromatin)	1
Positive Primer Set	Dilute from 4µM (provided) to 1µM working concentration	
Negative Primer Set	Dilute from 4µM (provided) to 1µM working concentration	

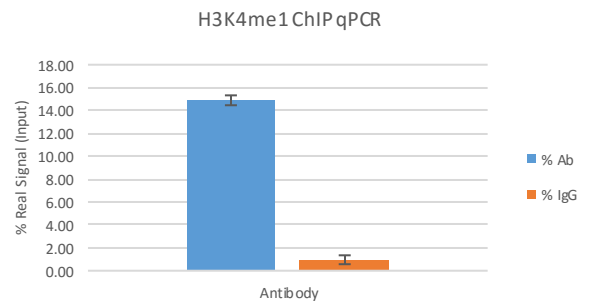
Please note: Optimal dilutions should be determined by the user. These volumes are stated as guidelines only.

Advancements in Epigenetics

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

Fig 1. H3K4me1 ChIP qPCR

Chromatin immunoprecipitation (ChIP) assays were performed using the Chromatrap® standard ChIP-Seq spin column sonication kit (Cat no. 500189) with 30µg of chromatin from Hec50 cells and 5µg of Anti-H3K4me1 antibody. qPCR was used to analyse the enrichment of the positive H3K4me1 antibody compared with the negative control rabbit IgG antibody.



Applications: ChIP

Concentration: 1mg/ml

Size: 50µl

Specificity: Human

Source: Rabbit

Type: Monoclonal

Purification: Protein A (affinity purified)

Storage Conditions: The H3K4me1 antibody should be stored at +4°C. Rabbit IgG and primer sets should all be stored at -20°C (*Avoid multiple freeze/thaw cycles as this may denature the antibody and degrade the primer sets*)