



ChIP Validated H3K14ac (Clone RM130) Antibody with Positive and Negative Primer Sets

Catalogue no: 900008

Chromatrap®'s ChIP Validated H3K14ac Antibody with Positive and Negative Primer Sets provides a complete set of tools to assist with a successful ChIP assay. Including: H3K14ac antibody, control sheep IgG, positive and negative primer sets. The ChIP Validated H3K14ac 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. Acetylation of histone H3 occurs at several different lysine positions on the histone tail and is catalysed by a group of enzymes called histone acetyltransferases (HATs). The histone acetylation mark H3K14ac can indicate enhancer sites; helping to identify active enhancers from poised ones. H3K14ac is associated with active transcription and can be found at the start site of actively transcribed genes.

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

The H3K14ac positive primer set recognises the promoter of a gene associated with active transcription and is a suitable target for this antibody. The negative gene target included recognises a protein-coding gene that is present when transcription is switched off.

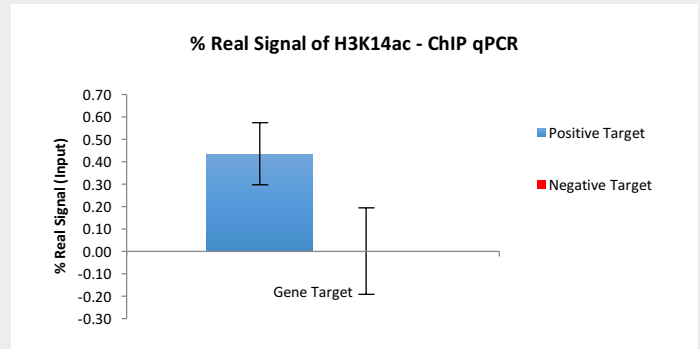
Suggested Usage:

Component	Suggested Dilution	Figure
H3K14ac	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.

Fig 1. H3K14ac 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-H3K14ac antibody. qPCR was used to analyse the enrichment of H3K14ac onto the positive gene target locus compared with the negative gene target locus.



Applications: ChIP

Concentration: 1mg/ml

Size: 50µl

Specificity: Human

Storage Conditions: The H3K14ac 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*)

Source: Rabbit

Type: Monoclonal

Purification: Protein A (affinity purified)