



ChIP Validated Ach3 Antibody and Positive Primer Set

Catalogue no: 900013

Chromatrap®'s ChIP Validated Ach3 Antibody and Positive Primer Set provides a complete set of tools to assist with a successful ChIP assay. Including: Ach3 antibody, control sheep IgG, and a positive primer set. The ChIP Validated Ach3 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. 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). Histone acetylation is associated with active transcription through its roles in chromatin remodelling and gene activation.

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

The positive primer set included in this Antibody Primer Set recognises a gene associated with active transcription

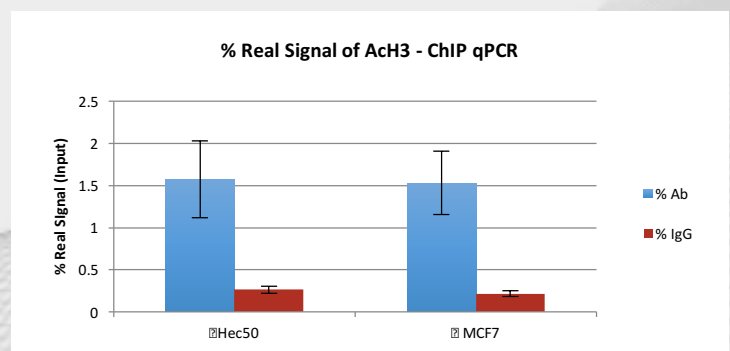
Suggested Usage:

Component	Suggested Dilution	Figure
AcH3	2:1 (antibody: chromatin)	1
Sheep 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. Ach3 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 and MCF7 cells and 2µg of Anti-Ach3 antibody. qPCR was used to analyse the enrichment of acetyl-H3 onto the positive gene locus compared with the non-specific IgG.



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: Sheep

Type: Polyclonal

Purification: Protein G (affinity purified)

Storage Conditions: Ach3 and Sheep IgG should be stored at +4°C. The positive primer set should 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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