



ChIP Validated Ach4 Antibody with Positive Primer Set

Catalogue no: 900018

Chromatrap®'s ChIP Validated Ach4 Antibody and Positive Primer Set provides a complete set of tools to assist with a successful ChIP assay. Including: Ach4 antibody, control sheep IgG, and a positive primer set. The ChIP Validated Ach4 Antibody and Positive Primer Set is not suitable for use with non-human species.

Background:

Histone 4 (H4) is one of the core histone proteins, comprising the protein component of chromatin. It is the smallest subunit of chromatin. Acetylation of histone H4 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.

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

Ach4 is associated with active transcription; the positive primer set included in this Antibody Primer Set recognises a gene that is present when transcription is switched on.

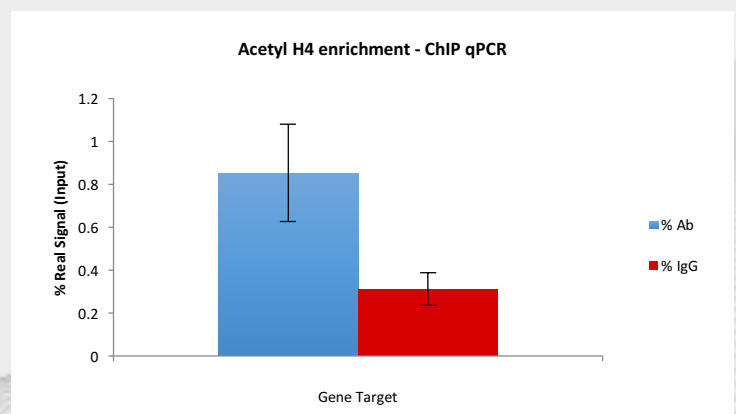
Suggested Usage:

Component	Suggested Dilution	Figure
Ach4	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. Ach4 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 Ishikawa cells and 2µg of Anti-Ach4 antibody. qPCR was used to analyse the enrichment of H4 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.



www.chromatrap.com

Clywedog Rd South
Wrexham Industrial Estate
Wrexham LL13 9XS, United Kingdom

Tel: +44 (0) 1978 666239/40
Email: support@chromatrap.com

Applications: CHIP

Concentration: 1mg/ml

Size: 50µl

Specificity: Human

Source: Sheep

Type: Monoclonal

Purification: Protein G (affinity purified)

Storage Conditions: Ach4 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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Company registered in England no 2047818 Registered office: 7 Regis Place, Bergen Way, Kings Lynn, PE30 2JN United Kingdom