www.chromatrap.com

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

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

ChIP Validated H3K4me3 (Clone RM137) Antibody with Positive and Negative Primer Sets

Catalogue no: 900002

Chromatrap®'s ChIP Validated H3K4me3 Antibody with Positive and Negative Primer Sets provides a complete set of tools to assist with a successful ChIP assay. Including: H3K4me3 antibody, control rabbit IgG, positive and negative primer sets. The ChIP Validated H3K4me3 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. 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 at multiple loci. The negative gene target included recognises a gene that is associated with repressive 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	
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.

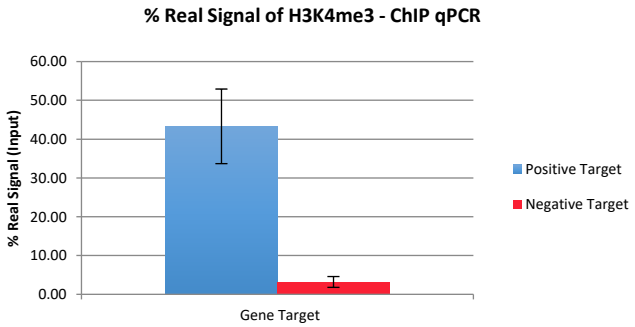
www.chromatrap.com

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

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

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 1ug of chromatin from Hec50 cells and 2ug 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.



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. Mouse 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)*

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