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ChIP Validated H3K9me1 (Clone RM150) Antibody with Positive and Negative Primer Sets

Catalogue no: 900026

Chromatrap®'s ChIP Validated H3K9me1 Antibody with Positive and Negative Primer Sets provides a complete set of tools to assist with a successful ChIP assay. Including: H3K9me1 antibody, control rabbit IgG, positive and negative primer sets. The ChIP Validated H3K9me1 Antibody with Positive and Negative Primer Sets is not suitable for use with non-human species.

Background:

Histone 3 is one of the core histone proteins, comprising the protein component of chromatin. Histones 3 monomethyl lysine 9 (H3K9me1) is a histone mark associated with gene activation. It is enriched at the transcriptional start site of genes and is detected in active gene promoters, where it can characterise active gene transcription.

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

The H3K9me1 positive primer set recognises the promoter of the SAT2 gene. The negative gene target included recognises the promoter of the GAPDH gene.

Suggested Usage:

Component	*Suggested Dilution*	*Figure*
H3K9me1	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.

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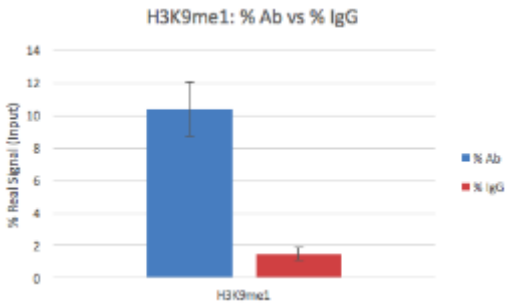
Fig 1. H3K9me1 ChIP qPCR

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-H3K9me1 antibody. qPCR was used to analyse the enrichment of H3K9me1 onto the positive gene locus and was compared to the non-specific background IgG.



Applications: ChIP
Concentration: 1mg/ml
Size: 50µl
Specificity: Human
Source: Rabbit
Type: Monoclonal
Purification: Protein A (affinity purified)

Storage Conditions: The H3K9me1 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)*

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