



## ChIP Validated H3K27me3 (Clone RM175) Antibody and Positive Primer Set

Catalogue no: 900012

Chromatrap®'s ChIP Validated H3K27me3 Antibody and Positive Primer Set provides a complete set of tools to assist with a successful ChIP assay. Including: H3K27me3 antibody, control rabbit IgG, and a positive primer set. The ChIP Validated H3K27me3 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. H3K27me3 is a histone mark associated with repressive transcription and a closed chromatin structure.

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

As H3K27me3 is associated with turning transcription off, the positive primer set included in this Antibody Primer Set recognises a gene associated with repressing transcription.

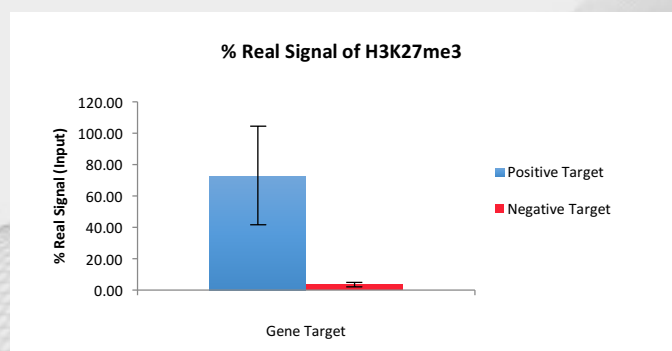
### Suggested Usage:

Component	Suggested Dilution	Figure
H3K27me3	2:1 (antibody: chromatin)	1
Rabbit 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. H3K27me3 ChIP qPCR**

Chromatin immunoprecipitation (ChIP) assays were performed using the Chromatrap® ChIP-Seq spin column sonication kit for qPCR (Cat no. 500189) with 30µg of chromatin from Hec50 cells and 5µg of Anti-H3K27me3 antibody. qPCR was used to analyse the enrichment of H3K27me3 onto the positive gene target locus compared with the negative gene target locus.



### 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:** Rabbit

**Type:** Monoclonal

**Purification:** Protein A (affinity purified)

**Storage Conditions:** H3K27me3 and Rabbit 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*)

**Advancements in Epigenetics**

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