

## ChIP Validated H3K27me3 (Clone RM175) Antibody with Positive and Negative Primer Sets



Catalogue no: 900001

Chromatrap®'s ChIP Validated H3K27me3 Antibody with Positive and Negative Primer Sets provides a complete set of tools to assist with a successful ChIP assay. Including: H3K27me3 antibody, control rabbit IgG, positive and negative primer sets. The ChIP Validated H3K27me3 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. 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. The negative gene target included recognises a gene that is associated with active transcription throughout the genome.

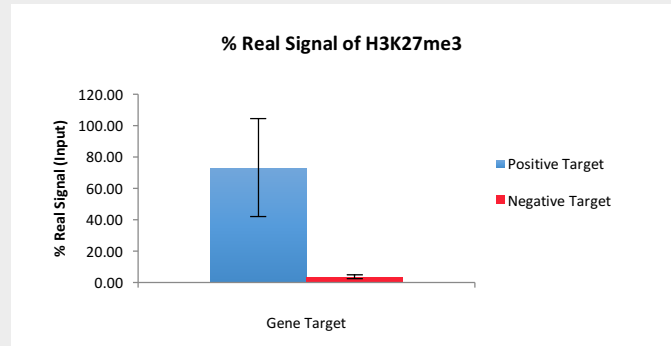
### Suggested Usage:

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	
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.*

### 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.



**Applications:** ChIP

**Concentration:** 1mg/ml

**Size:** 50µl

**Specificity:** Human

**Source:** Rabbit

**Type:** Monoclonal

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

**Storage Conditions:** H3K27me3 should be stored at +4°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)