

## ChIP Validated H3K9me2 (Clone RM151) Antibody with Positive Primer Sets



Catalogue no: 900032

Chromatrap®'s ChIP Validated H3K9me2 Antibody with Positive Primer Set provides a complete set of tools to assist with a successful ChIP assay. Including: H3K9me2 antibody, control rabbit IgG, and positive primer sets. The ChIP Validated H3K9me2 Antibody with Positive Primer Set 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. Histone 3 tri methyl K9 (H3K9me2) is a histone mark generally associated with repressed chromatin. It condenses and compacts the chromatin, restricting the transcription machinery from binding and carrying out gene expression. It is often found at silenced genes and is a mark of transcriptional repression.

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

The H3K9me2 positive primer set recognises the promoter of the SAT2 gene.

### Suggested Usage:

Component	Suggested Dilution	Figure
H3K9me2	2:1 (antibody: chromatin)	1
Rabbit IgG	2:1 (antibody: chromatin)	1
Positive Primer Set	Dilute from 4µM (provided) to 1µM working concentration	

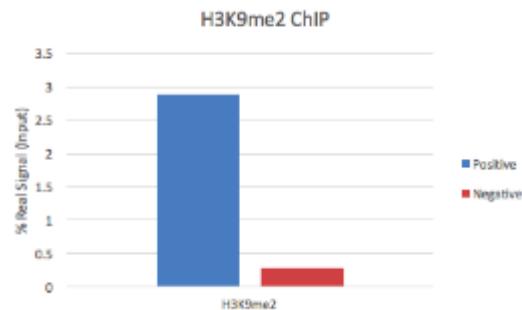
*Please note: Optimal dilutions should be determined by the user. These volumes are stated as guidelines only.*

## Advancements in Epigenetics

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

**Fig 1. H3K9me2 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-H3K9me2 antibody. qPCR was used to analyse the enrichment of H3K9me2 onto the positive gene locus in comparison to the negative gene locus.



**Applications:** ChIP

**Concentration:** 1mg/ml

**Size:** 50µl

**Specificity:** Human

**Storage Conditions:** The H3K9me2 antibody should be stored at +4°C. Rabbit IgG and positive primer set should all be stored at -20°C (*Avoid multiple freeze/thaw cycles as this may denature the antibody and degrade the primer sets*)

**Source:** Rabbit

**Type:** Monoclonal

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