

## ChIP Validated H3K4me3 (Clone RM137) Antibody and *Drosophila* Positive Primer Set

<b>Catalogue no:</b>	900036	<b>Source:</b>	Mouse
<b>Applications:</b>	ChIP	<b>Type:</b>	IgG
<b>Concentration:</b>	1mg/ml	<b>Purification:</b>	Protein A affinity
<b>Size:</b>	50µl	<b>Storage:</b>	-20°C
<b>Specificity:</b>	<i>Drosophila</i>		



Chromatrap®'s ChIP Validated H3K4me3 Antibody and *Drosophila* Positive Primer Set provides a complete set of tools to assist with a successful ChIP assay. Including: H3K4me3 antibody, control rabbit IgG, and Chromatrap®'s Positive *Drosophila* Primer Set. The ChIP Validated H3K4me3 Antibody is suitable for both *Drosophila* and human. The Positive Primer Set is not suitable for use with non-*Drosophila* 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.

### Immunogen

A trimethyl-peptide corresponding to trimethyl-histone H3 (Lys 4).

### Buffer

50:50 PBS:glycerol, 1% BSA, 0.09% sodium azide.

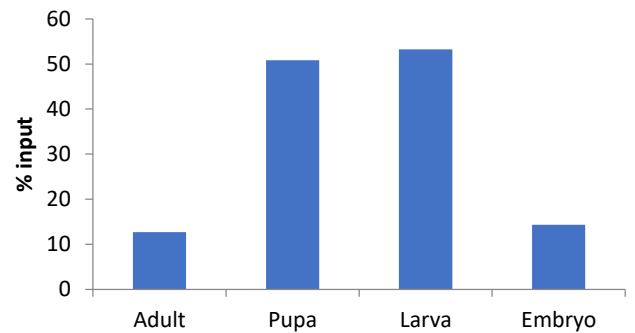
### Suggested Usage

Component	Suggested Dilution	Figure
H3K4me3	5:1 (antibody: chromatin)	1
Rabbit IgG	5:1 (antibody: chromatin)	1
<i>Drosophila</i> Positive Primer Set	Dilute from 4µM (provided) to 1µM working concentration	1

\*This product is for research use only. Results may vary between antibody lots.

### Figure 1. H3K4me3 ChIP qPCR

Chromatin immunoprecipitation (ChIP) assays were performed using the Chromatrap® *Drosophila* ChIPseq kit (Cat no.500274) with 1µg of chromatin from adult, pupal, larval and embryonic *Drosophila* tissue and 5µg of anti-H3K4me3 antibody. qPCR was used to analyse the enrichment of H3K4me3 onto the positive gene target locus.



# Chromatrap

[www.chromatrap.com](http://www.chromatrap.com)

### Advancements in Epigenetics

Chromatrap is a brand of Porvair Sciences Ltd. Ciywedog Rd South, Wrexham Industrial Estate, Wrexham LL13 9XS, United Kingdom  
Email: Sales [sales@chromatrap.com](mailto:sales@chromatrap.com) Technical Support: [support@chromatrap.com](mailto:support@chromatrap.com)

Company registered in England no 2047818 Registered office: 7 Regis Place, Bergen Way, Kings Lynn, PE30 2JN, United Kingdom