

## ChIP Validated H4K5ac (Clone RM140) Antibody with Positive and Negative Primer Sets



Catalogue no: 900029

Chromatrap®'s ChIP Validated H4K5ac Antibody with Positive Primer Set provides a complete set of tools to assist with a successful ChIP assay. Including: H4K5ac antibody, control rabbit IgG, and positive primer set. The ChIP Validated H4K5ac Antibody with Positive Primer Set is not suitable for use with non-human species.

### Background:

Histone 4 (H4) is one of the five core histone proteins, comprising the protein component of chromatin. H4 is ubiquitous within chromosomes and can be found bound to most gene sequences throughout the genome. Acetylation of lysine 5 on histone 4 (H4K5ac) is associated with open chromatin and active gene transcription. H4K5ac has been shown to have roles in epigenetic bookmarking, a process where genetic information is passed onto daughter cells during cell division.

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

The H4K5ac positive primer set recognises the promoter of the GAPDH gene, associated with active transcription and is a suitable target for this antibody.

### Suggested Usage:

Component	Suggested Dilution	Figure
H4K5ac	2:1 (antibody:chromatin)	1
Rabbit IgG	2:1 (antibody:chromatin)	1
Positive Primer Set	Dilute from 4µM (provided) to 1µM working concentration	

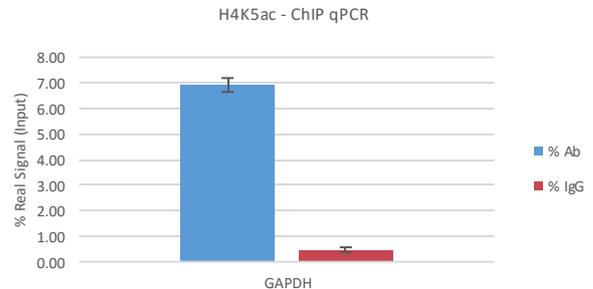
Please note: Optimal dilutions should be determined by the user. These volumes are stated as guidelines only.

### Advancements in Epigenetics

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

### Fig 1. H4K5ac ChIP qPCR

Chromatin immunoprecipitation (ChIP) assays were performed using the Chromatrap® standard ChIP spin column sonication kit for qPCR (Cat no. 500071) with 2µg of chromatin from Hec50 cells and 1µg of Anti-H4K5ac antibody. qPCR was used to analyse the enrichment of the positive H4K5ac antibody compared with the negative control rabbit IgG antibody.



**Applications:** CHIP

**Concentration:** 1mg/ml

**Size:** 50µl

**Specificity:** Human

**Storage Conditions:** The H4K5ac 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)