

## ChIP Validated Sin3a Antibody with Positive and Negative Primer Sets



Catalogue no: 900007

Chromatrap®'s ChIP Validated Sin3a Antibody with Positive and Negative Primer Sets provides a complete set of tools to assist with a successful ChIP assay. Including: Sin3a antibody, control sheep IgG, positive and negative primer sets. The ChIP Validated Sin3a Antibody with Positive and Negative Primer Sets is not suitable for use with non-human species.

### Background:

Sin3a (Switch independent 3 homologue) is a transcriptional repressor and protein-encoding gene. It interacts with co-repressors and DNA-binding proteins such as REST, MXI1 and MXD1-MAX that allow Sin3a to bind to DNA and repress transcriptional activity. It acts interdependently with OGT (O-linked N-acetylglucosamine) to repress transcription alongside with histone deacetylation.

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

The Sin3a positive primer set recognises the hypermethylated promoter of a gene that binds to Sin3a, resulting in the repression of transcription. The negative gene target included recognises a gene that is associated with active transcription.

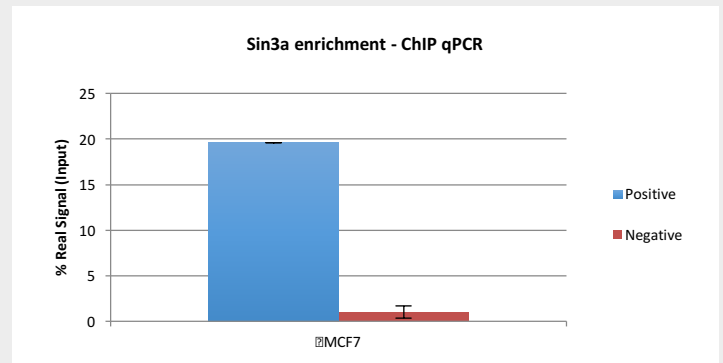
### Suggested Usage:

Component	Suggested Dilution	Figure
Sin3a	2:1 (antibody: chromatin)	1
Sheep 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. Sin3a ChIP qPCR

Chromatin immunoprecipitation (ChIP) assays were performed using the Chromatrap® standard ChIP spin column sonication kit for qPCR (Cat no. 500071) with 1ug of chromatin from MCF7 cells and 2ug of Anti- Sin3a antibody. qPCR was used to analyse the enrichment of Sin3a onto the positive gene locus compared to the negative gene locus.



**Applications:** ChIP

**Concentration:** 1mg/ml

**Size:** 50µl

**Specificity:** Human

**Storage Conditions:** The Sin3a antibody and sheep IgG should be stored at +4°C. 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)

**Source:** Sheep

**Type:** Monoclonal

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