

ChIP Validated RNA Pol II (S5) Antibody with Positive Primer Set

Catalogue no: 900016



Chromatrap®'s ChIP Validated RNA Pol II (S5) Antibody and Positive Primer Set provides a complete set of tools to assist with a successful ChIP assay. Including: RNA Pol II (S5) antibody, control mouse IgG, and a positive primer set. The ChIP Validated RNA Pol II (S5) Antibody and Positive Primer Set is not suitable for use with non-human species.

Background:

RNA polymerase II catalyses the transcription of DNA into mRNA and other small nuclear RNAs in eukaryotes. It contains a CTD consisting of conserved heptapeptide repeats. Phosphorylation occurs at serine and threonine residues located in the CTD repeats to activate the RNA pol II. RNA pol II binds to several transcription factors in order to initiate transcription and therefore serves as an abundant antibody target for ChIP. This antibody recognises the phosphorylated (serine 5) form of RNA Pol II in humans.

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

The positive primer set included in this Antibody Primer Set recognises a gene associated with active transcription due to the role of RNA Pol II (S5) in catalysing transcription.

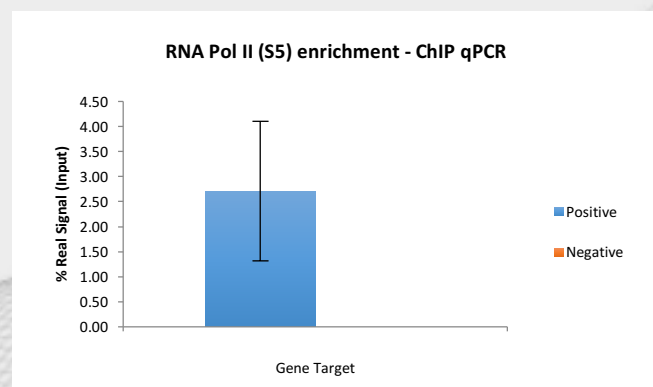
Suggested Usage:

Component	Suggested Dilution	Figure
RNA Pol II (S5)	2:1 (antibody: chromatin)	1
Mouse 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.

Fig 1. RNA Pol II (phospho S5) 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-RNA pol II (phospho S5) antibody. qPCR was used to analyse the enrichment of RNA pol II (S5) onto the positive gene locus compared with enrichment at the negative gene locus.



Advancements in Epigenetics

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



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Applications: ChIP

Concentration: 0.95mg/ml

Size: 50µl

Specificity: Human

Storage Conditions: RNA Pol II (S5), mouse IgG, and the 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: Mouse

Type: Monoclonal

Purification: Protein A (affinity purified)

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