

ChIP Validated Androgen Receptor Antibody with Positive Primer Set



Catalogue no: 900019

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

Background:

The androgen receptor (AR) is a steroid hormone receptor involved in the signalling of testosterone. It is a regulatory gene that controls gene expression through binding to androgen receptor elements (AREs). The AR is associated with both normal prostate and cancerous prostate cell growth at abnormal levels of the gene (Lamb et al, 2014, BJUI). Androgens are also heavily involved in the pathogenesis of endometrial cancer (D.A. Gibson et al, 2014, Endocr Relat Cancer). DHT (dihydrotestosterone) is a natural androgen hormone that can activate the androgen receptor (Mostaghel, 2014, IJBS).

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

The androgen receptor positive primer set recognises a protein-coding gene that is regulated by androgen.

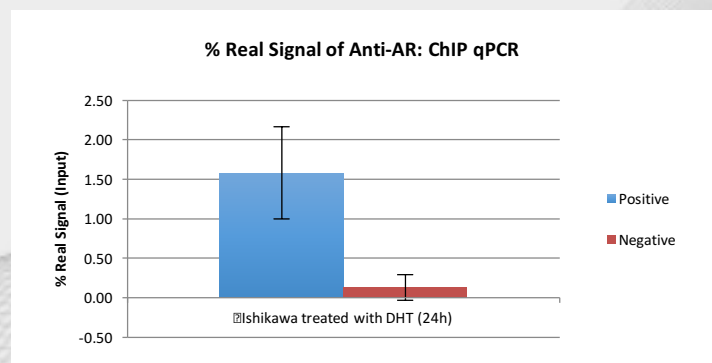
Suggested Usage:

Component	Suggested Dilution	Figure
AR	2:1 (antibody: chromatin)	1
Sheep 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. AR 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 Ishikawa cells treated with DHT (testosterone) for 24h and 2µg of Anti- AR antibody. qPCR was used to analyse the enrichment of AR onto the positive gene locus compared to 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: 1mg/ml

Size: 50 μ l

Specificity: Human

Source: Sheep

Type: Monoclonal

Purification: Protein G (affinity purified)

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

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