

ChIP Validated Androgen Receptor Antibody with Positive and Negative Primer Sets



Catalogue no: 900006

Chromatrap®'s ChIP Validated AR Antibody with Positive and Negative Primer Sets provides a complete set of tools to assist with a successful ChIP assay. Including: AR antibody, control sheep IgG, positive and negative primer sets. The ChIP Validated AR Antibody with Positive and Negative Primer Sets 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. The negative gene target included recognises a gene that is not present at the androgen receptor.

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	
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.



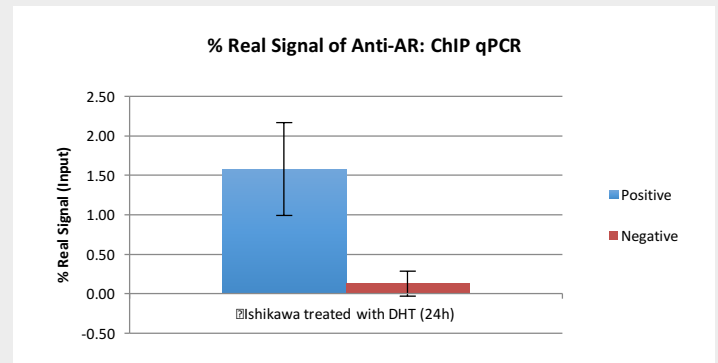
www.chromatrap.com

Clywedog Rd South
Wrexham Industrial Estate
Wrexham LL13 9XS, United Kingdom

Tel: +44 (0) 1978 666239/40
Email: support@chromatrap.com

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 1ug of chromatin from Ishikawa cells treated with DHT (testosterone) for 24h and 2ug of Anti- AR antibody. qPCR was used to analyse the enrichment of AR onto the positive gene locus compared to the negative gene locus.



Applications: ChIP

Concentration: 1mg/ml

Size: 50µl

Specificity: Human

Storage Conditions: The AR 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)

Advancements in Epigenetics

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

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