

ChIP Validated H2Az (Clone RM215) Antibody with Positive Primer Set

Catalogue no: 900034



Chromatrap®'s ChIP Validated H2Az Antibody with Positive Primer Set provides a complete set of tools to assist with a successful ChIP assay. Including: H2Az antibody, control rabbit IgG, and positive primer sets. The ChIP Validated H2Az Antibody with Positive Primer Set is not suitable for use with non-human species.

Background:

Histone H2A (H2A) is one of the four core histone proteins, comprising the protein component of chromatin. The core histones are responsible for the structure and shape of nucleosomes. H2Az is a variant of H2A. It is associated with memory and regulates gene transcription in the brain. For this reason it has been put forward as a potential therapeutic target for memory disorders (Zovkic et al. 2014). H2Az can be found bound to most gene sequences throughout the genome. It therefore serves as an abundant antibody target for ChIP.

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

The H2Az positive primer set recognises the promoter of the GAPDH gene which is associated with active transcription.

Suggested Usage:

Component	Suggested Dilution	Figure
H2Az	2:1 (antibody: chromatin)	1
Rabbit IgG	2:1 (antibody: chromatin)	1
Positive Primer Set	Dilute from 4µM (provided) to 1µM working concentration	

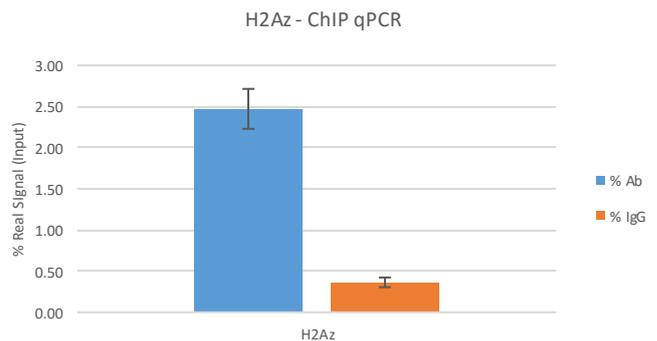
Please note: Optimal dilutions should be determined by the user. These volumes are stated as guidelines only.

Advancements in Epigenetics

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

Fig 1. H2Az ChIP qPCR

Chromatin immunoprecipitation (ChIP) assays were performed using the Chromatrap® standard ChIP spin column sonication kit for qPCR (Cat no. 500071) with 1 µg of chromatin from Hec50 cells and 2 µg of Anti-H2Az antibody. qPCR was used to analyse the enrichment of the positive H2Az antibody compared with the negative control rabbit IgG antibody.



Applications: ChIP

Concentration: 1mg/ml

Size: 50µl

Specificity: Human

Storage Conditions: The H2Az, 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)