



Anti-Histone H2Az, Clone RM215

Catalogue no: 700019

Applications: ChIP, WB, ELISA, ICC, Multiplex

Concentration: 1mg/ml

Size: 100µl

Specificity: Human

Source: Rabbit

Type: Monoclonal

Purification: Protein A (affinity purified)

Storage: -20°C

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.

Immunogen:

Recognises a peptide corresponding to the C-terminus of human Histone H2Az.

Buffer:

50% Glycerol/ PBS with 1% BSA and 0.09% sodium azide.

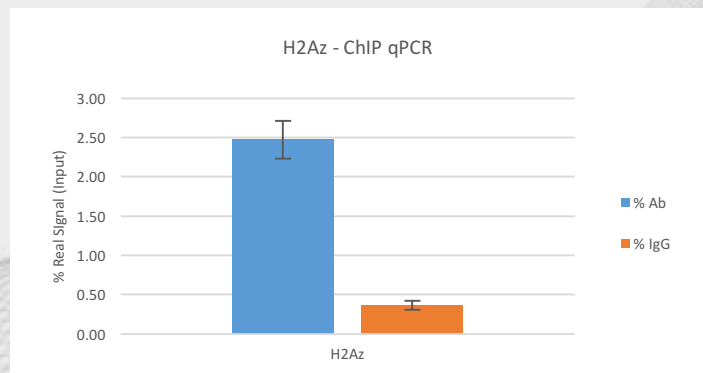
Applications:

Application	Suggested Dilution	Figure
Chromatin Immunoprecipitation	2µg: 1µg (antibody: chromatin)	1
Western Blot	0.1µg/mL – 0.5µg/mL	2
Immunocytochemistry	1µg/mL - 2µg/mL	3
Multiplex	0.1µg/mL – 1µg/mL	
ELISA	0.1µg/mL - 1µg/mL	

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

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 1µg of chromatin from Hec50 cells and 2µg of Anti-H2Az antibody. qPCR was used to analyse the enrichment of the positive H2Az antibody compared with the negative control rabbit IgG antibody.



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

Fig 2. H2Az Western Blot

Western Blot of HeLa, HEK293, A375, SK-MEL-2 and A431 whole cell lysates, using RM215 at 0.5 μ g/mL, showed endogenous Histone H2Az in HeLa, HEK293, A375, SK-MEL-2 and A431 cells.

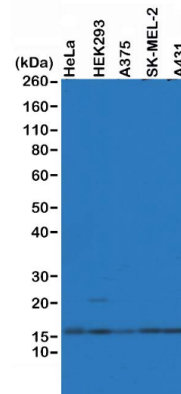


Fig 3. H2Az Immunocytochemistry

Immunocytochemistry of HeLa cells, using Histone H2AZ Rabbit mAb RM215 (red). Actin filaments have been labelled with fluorescein phalloidin (green).

