



Anti H4K5ac, Clone RM199

Catalogue no: 700017

Applications: ChIP, WB, ELISA, Multiplex

Concentration: 1mg/ml

Size: 100µl

Specificity: Human

Source: Rabbit

Type: Monoclonal

Purification: Protein A (affinity purified)

Storage: +2- +8°C

Background:

Histone 4 (H4) is one of the five core histone proteins, comprising the protein component of chromatin. H4 is ubiquitous within chromosomes and can be found bound to most gene sequences throughout the genome. Acetylation of lysine 5 on histone 4 (H4K5ac) is associated with open chromatin and active gene transcription. H4K5ac has been shown to have roles in epigenetic bookmarking, a process where genetic information is passed onto daughter cells during cell division.

Immunogen:

An acetyl-peptide corresponding to Acetyl-Histone H4 (Lys 5).

Buffer:

PBS with 1% BSA and 0.09% sodium azide.

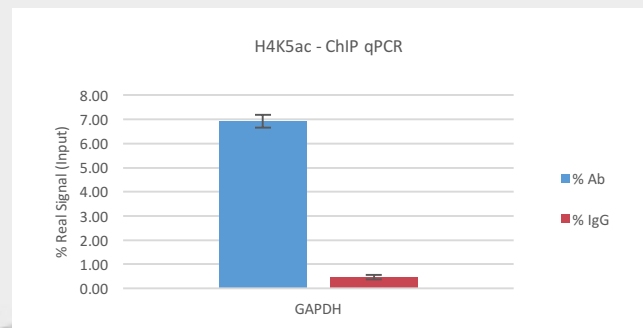
Applications:

Application	Suggested Dilution	Figure
Chromatin Immunoprecipitation	2µg: 1µg (antibody: chromatin)	1
Western Blot	0.2µg/mL - 1µg/mL	2
ELISA	0.2µg/mL - 1µg/mL	
Multiplex	0.05µg/mL - 0.2µg/mL	

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

Fig 1. H4K5ac ChIP qPCR

Chromatin immunoprecipitation (ChIP) assays were performed using the Chromatrap® standard ChIP spin column sonication kit for qPCR (Cat no. 500071) with 2µg of chromatin from Hec50 cells and 1µg of Anti-H4K5ac antibody. qPCR was used to analyse the enrichment of the positive H4K5ac antibody compared with the negative control rabbit IgG antibody.

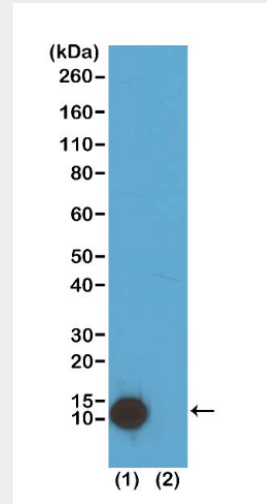


Advancements in Epigenetics

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

Fig 2. H4K5ac Western Blot

Western Blot of (1) acid extracts of HeLa cells treated with sodium butyrate, and (2) recombinant Histone H4. Using RM199 at 0.2 μ g/mL, showed a band of Histone H4 acetylated at Lysine 5 in HeLa cells.



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