

Anti-Acetyl-Histone H3 (Lys14) H3F3A Rabbit Monoclonal Antibody, Clone#RM130

Catalog Number: M06819-1

Overview

Product Name	Anti-Acetyl-Histone H3 (Lys14) H3F3A Rabbit Monoclonal Antibody, Clone#RM130
Reactive Species	Human, Vertebrates
Description	Boster Bio Anti-Acetyl-Histone H3 (Lys14) H3F3A Rabbit Monoclonal Antibody, Clone#RM130 (Catalog # M06819-1). Tested in WB, ICC, ChIP, ELISA, Luminex applications. This antibody reacts with Human, Vertebrates.
Application	ChIP, ELISA, ICC, WB, Luminex
Clonality	Monoclonal RM130
Formulation	50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
Storage Instructions	Store at -20°C for one year. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P84243

Technical Details

Immunogen	An acetyl-peptide corresponding to the Acetyl-Histone H3 (Lys14)
Cross Reactivity	Reacts to Histone H3 acetylated Lysine 14(K14ac). Not affected by modification of neighboring AAs. No cross-reactivity: acetylated Lysine 4(K4ac), Lysine 9(K9ac), Lysine 18(K18ac), Lysine 23(K23ac), Lysine 27(K27ac), Lysine 36(K36ac), Lysine 79(K79ac)
Isotype	Rabbit IgG
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A affinity purified from an animal origin-free culture supernatant
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 0.5 ug/mL - 2 ug/mL ICC: 0.5 ug/mL - 2 ug/mL ChIP: 2 ug/mL- 10 ug/mL

	ELISA: 0.2 ug/mL - 1 ug/mL Luminex: 0.1 ug/mL - 0.5 ug/mL.
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Anti-Acetyl-Histone H3 (Lys14) H3F3A Rabbit Monoclonal Antibody, Clone#RM130 (M06819-1) Images

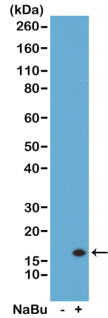


Figure 1. Western Blotting result
Western Blot of acid extracts from HeLa cells untreated (-) or treated with sodium butyrate (+) or, using RM130 at 0.5 ug/mL, showed a band of histone H3 acetylated at Lysine 14 in treated HeLa.

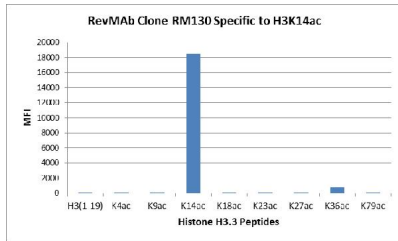


Figure 2. Specificity Test result
RM130 specifically reacts to Histone H3 acetylated at Lysine 14 (K14ac). No cross reactivity with acetylated Lysine 4 (K4ac), Lysine 9 (K9ac), Lysine 18 (K18ac), Lysine 23 (K23ac), Lysine 27 (K27ac), Lysine 36 (K36ac), or lysine 79 (K79ac) in histone H3.

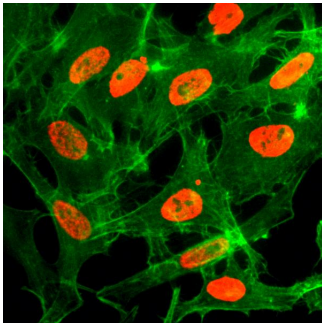


Figure 3. ICC result
Immunocytochemistry of HeLa cells treated with sodium butyrate, using Acetyl-Histone H3 (Lys14) Rabbit mAb RM130 (red). Actin filaments have been labeled with fluorescein phalloidin (green).

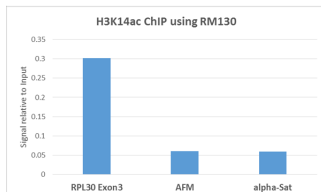
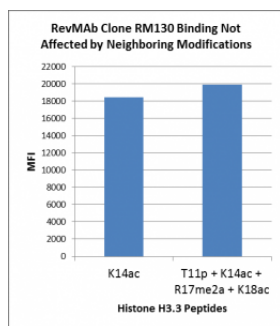


Figure 4. ChIP result
ChIP performed on HeLa cells using H3K14ac antibody (RM130, 5ug). Real-time PCR was performed using primers specific to the gene indicated.

Figure 5. Specificity Test result
The specific binding of RM130 to Histone H3 acetylated at Lysine 14 (K14ac) is not affected by the modification of neighboring amino acids.



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