

## 10-9539: Recombinant Rabbit Monoclonal Antibody to Acetylated Histone H3 Lysine 14 (K14ac) (Clone: RM130)(Discontinued)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	RM130
<b>Application :</b>	WB,ELISA,Multiplex,ChIP,ICC
<b>Reactivity :</b>	All Species
<b>Gene :</b>	H3F3A
<b>Gene ID :</b>	3020
<b>Uniprot ID :</b>	P84243
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Histone H3.3
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	An acetyl-peptide corresponding to the Acetyl-Histone H3 (Lys14)

### Product Info

<b>Amount :</b>	100 µg
<b>Purification :</b>	Protein A affinity purified from an animal origin-free culture supernatant
<b>Content :</b>	1 mg/ml in 50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
<b>Storage condition :</b>	Store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

Clone RM130 reacts to Histone H3 acetylated at Lysine 14 (K14ac), and is not affected by the modification of neighboring amino acids. 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. Western Blot: 0.5 Åµg/ml - 2 Åµg/ml; ICC: 0.5 Åµg/ml - 2 Åµg/ml; ChIP: 2 Åµg/ml- 10 Åµg/ml; ELISA: 0.2 Åµg/ml - 1 Åµg/ml; Multiplex: 0.1 Åµg/ml Åµg/ml 0.5 Åµg/ml.

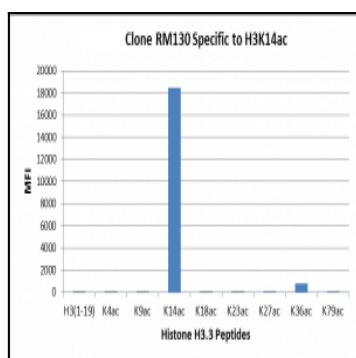


Figure 1: Clone: RM130 specifically reacts to Histone H3 acetylated at Lysine 14 (K14ac). No cross reactivity with acetylated Lysine 4 (K4ac), Lysine 9 (K9ac), Lysine 18 (K18ac), Lysine 23 (K23ac), Lysine 27 (K27ac), Lysine 36 (K36ac), or lysine 79 (K79ac) in histone H3.

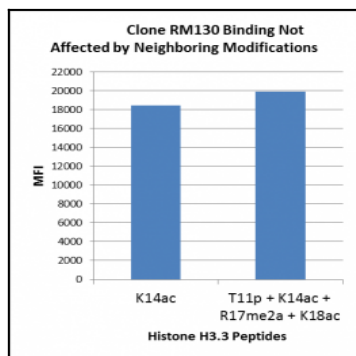


Figure 2: The binding specificity of Clone: RM130 to Histone H3 acetylated at Lysine 14 (K14ac) is not affected by the modification of neighbouring amino acids.

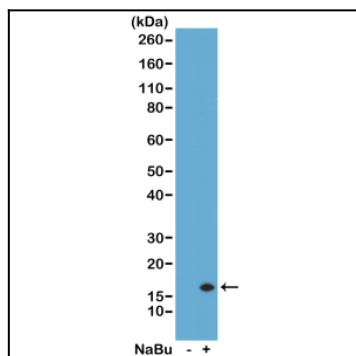


Figure 3: Western Blot of acid extracts from HeLa cells untreated (-) or treated with sodium butyrate (+) or, using Clone: RM130 at 0.5 µg/ml.

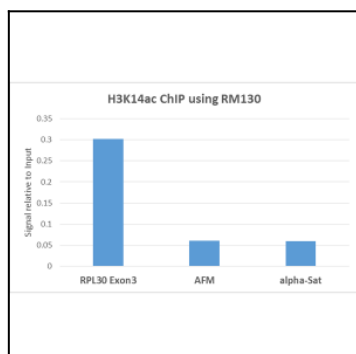


Figure 4: ChIP performed on HeLa cells using H3K14ac antibody (Clone: RM130, 5 µg). Real-time PCR was performed using primers specific to the gene indicated.

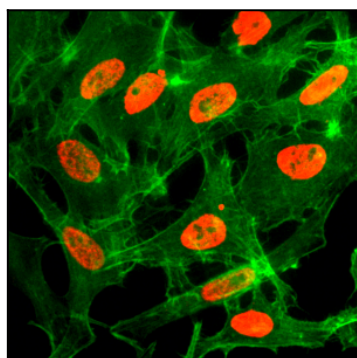


Figure 5: Immunocytochemistry of HeLa cells treated with sodium butyrate, using Acetyl-Histone H3 (Lys14) Rabbit mAb Clone: RM130 (red). Actin filaments have been labeled with fluorescein phalloidin (green).