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

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

## Product Info

| | |
|---|---|
| **Amount :** | 100 µg |
| **Purification :** | Protein A affinity purified from an animal origin-free culture supernatant |
| **Content :** | 1 mg/ml in 50% Glycerol/PBS with 1% BSA and 0.09% sodium azide |
| **Storage condition :** | 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 Ã□Âµg/ml - 2 Ã□Âµg/ml; ICC: 0.5 Ã□Âµg/ml - 2 Ã□Âµg/ml; ChIP: 2 Ã□Âµg/ml- 10 Ã□Âµg/ml; ELISA: 0.2 Ã□Âµg/ml - 1 Ã□Âµg/ml; Multiplex: 0.1 Ã□Âµg/ml Ã□â□□ 0.5 Ã□Âµg/ml.

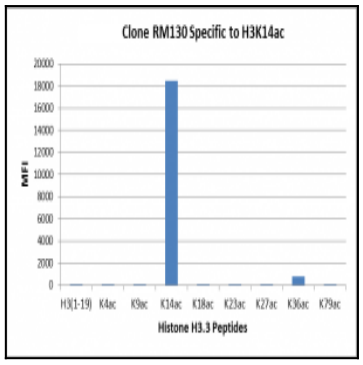


Figure 1: Clone: RM130 specifically reacts to Histone H3 acetylated at Lysine 14 (K14ac). No cross reactivity with acetylated Lysine 4 (K4ac), Lysine 9 (K9ac), Lysine 18 (K18ac), Lysine 23 (K23ac), Lysine 27 (K27ac), Lysine 36 (K36ac), or lysine 79 (K79ac) in histone H3.

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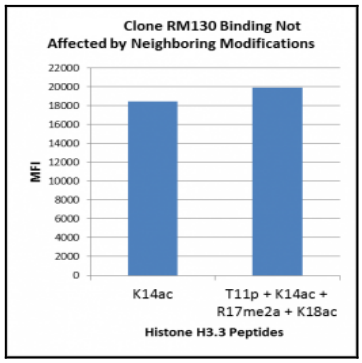


Figure 2: The binding specificity of Clone: RM130 to Histone H3 acetylated at Lysine 14 (K14ac) is not affected by the modification of neighbouring amino acids.

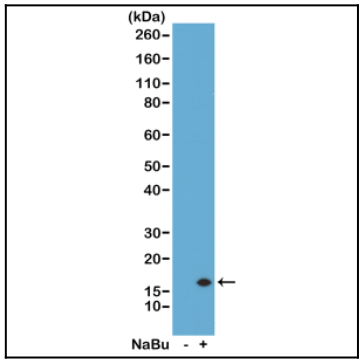


Figure 3: Western Blot of acid extracts from HeLa cells untreated (-) or treated with sodium butyrate (+) or, using Clone: RM130 at 0.5 µg/ml.

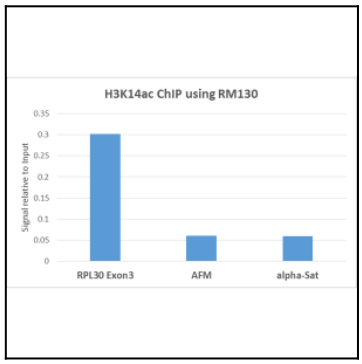


Figure 4: ChIP performed on HeLa cells using H3K14ac antibody (Clone: RM130, 5 µg). Real-time PCR was performed using primers specific to the gene indicated.

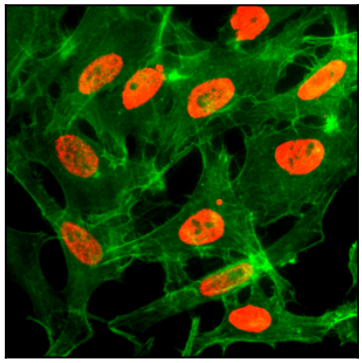

Figure 5: Immunocytochemistry of HeLa cells treated with sodium butyrate, using Acetyl-Histone H3 (Lys14) Rabbit mAb Clone: RM130 (red). Actin filaments have been labeled with fluorescein phalloidin (green).