

## 10-9549: Recombinant Rabbit Monoclonal Antibody to Acetylated Histone H3 Lysine 18 (K18ac) (Clone: RM166)(Discontinued)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	RM166
<b>Application :</b>	WB,ELISA,Multiplex,ChIP,ICC. IHC
<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 (Lys18)

### 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 RM166 reacts to Histone H3 acetylated at Lysine 18 (K18ac). No cross reactivity with other acetylated Lysines 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; IHC: 1 Åµg/ml-10 Åµg/ml; ELISA: 0.2 Åµg/ml - 1 Åµg/ml; Multiplex: 0.1 Åµg/ml Åµg/ml 0.5 Åµg/ml.

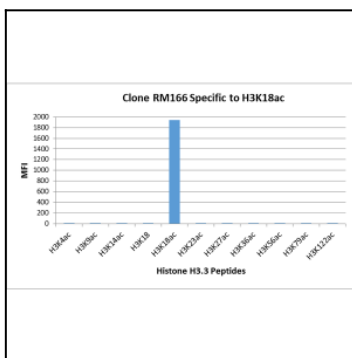


Figure 1: Clone: RM166 specifically reacts to Histone H3 acetylated at Lysine 18 (K18ac). No cross reactivity with acetylated Lysine 4 (K4ac), Lysine 9 (K9ac), Lysine 14 (K14ac), Lysine 23 (K23ac), Lysine 27 (K27ac), Lysine 36 (K36ac), Lysine 56 (K56ac), Lysine 79 (K79ac), or Lysine 122 (K122) in Histone H3.

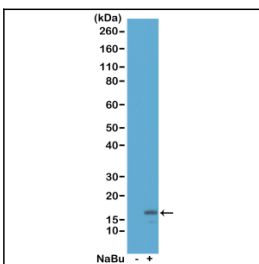


Figure 2: Western Blot of acid extracts from HeLa cells untreated (-) or treated with sodium butyrate (+), using Clone: RM166 at 0.5 µg/ml, showed a band of histone H3 acetylated at Lysine 18 in treated HeLa.

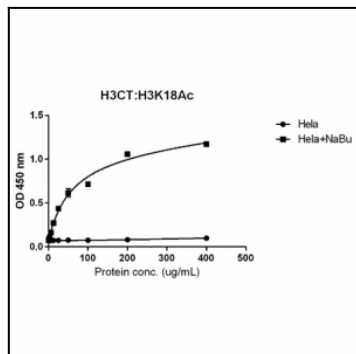


Figure 3: Sandwich ELISA against acetylated histone H3 at Lys 18 using HeLa whole cell lysate, treated or untreated with Sodium Butyrate. Using anti-H3CT (Clone: RM188, 1 µg/ml) as the capture antibody and biotinylated anti-H3K18C (Clone: RM166, 2 µg/ml) as the detection antibody.

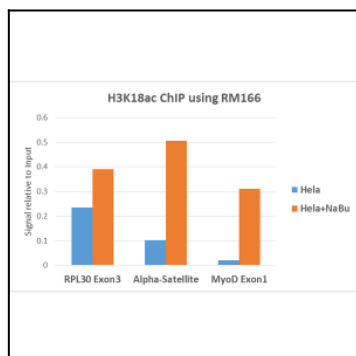


Figure 4: CHIP performed on HeLa cells with or without Sodium Butyrate treatment, using H3K18Ac antibody (Clone: RM166, 5 µg). Real-time PCR was performed using primers specific to the gene indicated.

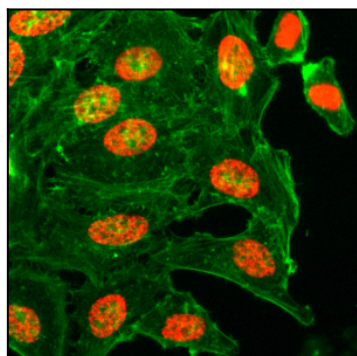


Figure 5: Immunocytochemistry of HeLa cells treated with sodium butyrate, using Acetyl-Histone H3 (Lys18) Rabbit mAb Clone: RM166(red). Actin filaments have been labeled with fluorescein phalloidin (green).

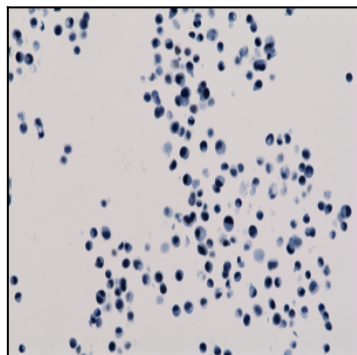


Figure 6: Immunohistochemistry staining of HepG2 cells using Anti-Acetyl-Histone H3 (Lys18) antibody, Clone: RM166.