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10-9548: Recombinant Rabbit Monoclonal Antibody to Acetylated Histone H3 Lysine 9 (K9ac) (Clone: RM161)(Discontinued)

Clonality :	Monoclonal
Clone Name :	RM161
Application :	WB,ELISA,Multiplex,ChIP,ICC,IHC
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 (Lys9)

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 RM161 reacts to Histone H3 acetylated at Lysine 9 (K9ac). No cross reactivity with other acetylated Lysines in histone H3. Western Blot: 0.25 ÃÂµg/ml - 1 ÃÂµg/ml; ICC: 0.5 ÃÂµg/ml - 2 ÃÂµg/ml; ChIP: 2 ÃÂµg/ml-10 ÃÂµg/ml; IHC: 0.1 ÃÂµg/ml Ãâ 1 ÃÂµg/ml; ELISA: 0.2 ÃÂµg/ml - 1 ÃÂµg/ml; Multiplex: 0.05 ÃÂµg/ml Ãâ 0.5 ÃÂµg/ml.

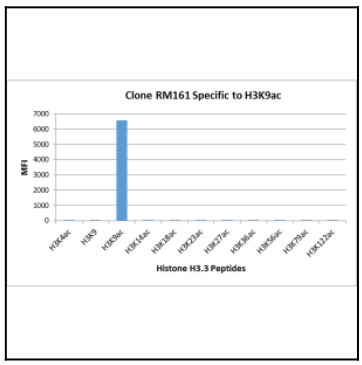

Figure 1: Clone: RM161 specifically reacts to Histone H3 acetylated at Lysine 9 (K9ac). No cross reactivity with acetyl-ated Lysine 4 (K4ac), Lysine 14 (K14ac), Lysine 18 (K18ac), Lysine 23 (K23ac), Lysine 27 (K27ac), Lysine 36 (K36ac), Lysine 56 (K56ac), Lysine 79 (K79ac), or Lysine 122 (K122) in histone H3.

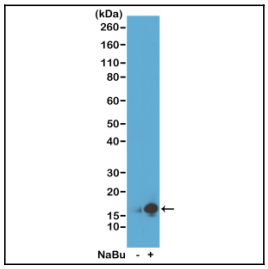

Figure 2: Western Blot of acid extracts from HeLa cells untreated (-) or treated with sodium butyrate (+), using Clone: RM161 at 0.25 µg/ml, showed a band of histone H3 acetylated at Lysine 9 in treated HeLa.

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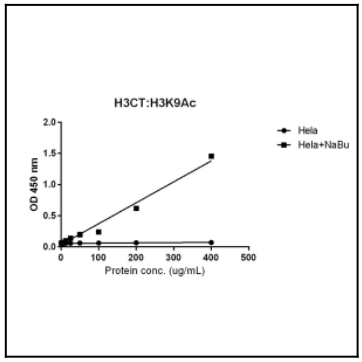

Figure 3: Sandwich ELISA against acetylated histone H3 at Lys 9 using HeLa whole cell lysate, treated or untreated with Sodium Butyrate. Using anti-H3CT (Clone: RM188, 1 µg/ml) as the capture antibody and biotinylated anti-H3K9ac (Clone: RM161,1 µg/ml) as the detection antibody.

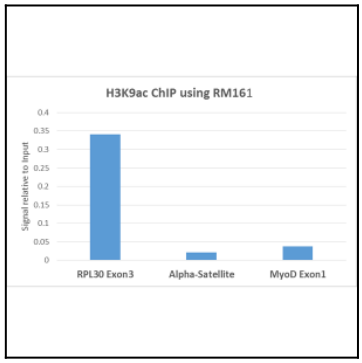

Figure 4: ChIP performed on HeLa cells using H3K9ac antibody (Clone: RM161, 5 µg). Real-time PCR was performed using primers specific to the gene indicated.

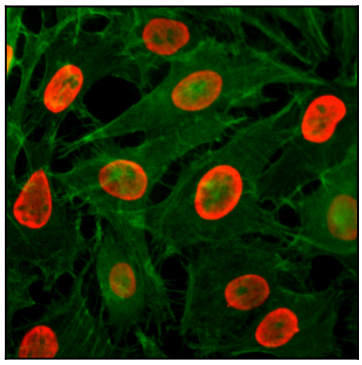

Figure 5: Immunocytochemistry of HeLa cells treated with sodium butyrate, using Acetyl-Histone H3 (Lys9) Rabbit mAb Clone: RM161 (red). Actin filaments have been labeled with fluorescein phalloidin (green).

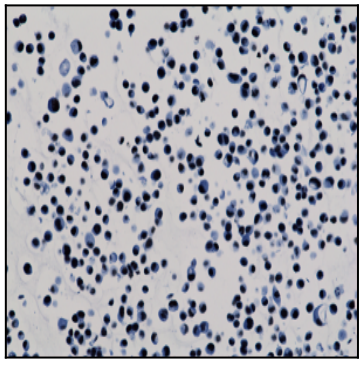

Figure 6: Immunohistochemistry staining of HepG2 cells usinganti-Acetyl-Histone H3 (Lys9) antibody, Clone: RM161.