

## Anti-Acetyl-Histone H3 (Lys9) H3F3A Rabbit Monoclonal Antibody, Clone#RM161

Catalog Number: M06819-11

### Overview

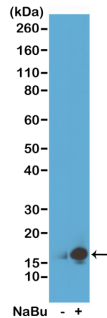
Product Name	Anti-Acetyl-Histone H3 (Lys9) H3F3A Rabbit Monoclonal Antibody, Clone#RM161
Reactive Species	Human, Vertebrates
Description	Boster Bio Anti-Acetyl-Histone H3 (Lys9) H3F3A Rabbit Monoclonal Antibody, Clone#RM161 (Catalog # M06819-11). Tested in WB, ICC, ChIP, IHC, ELISA, Luminex applications. This antibody reacts with Human, Vertebrates.
Application	ChIP, ELISA, IHC, ICC, WB, Luminex
Clonality	Monoclonal RM161
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

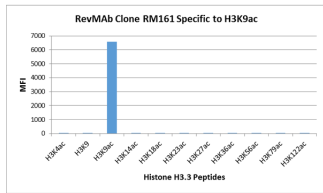
Immunogen	An acetyl-peptide corresponding to the Acetyl-Histone H3 (Lys9)
Cross Reactivity	This antibody reacts to Histone H3 acetylated at Lysine 9 (K9ac). No cross-reactivity with other acetylated Lysines in histone H3.
Isotype	Rabbit IgG
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A affinity purified from an animal origin-free culture supernatant
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 0.25 ug/mL - 1 ug/mL</p> <p>ICC: 0.5 ug/mL - 2 ug/mL</p> <p>ChIP: 2 ug/mL-10 ug/mL</p> <p>IHC: 0.1 ug/mL - 1 ug/mL</p>

	ELISA: 0.2 ug/mL - 1 ug/mL Luminex: 0.05 ug/mL - 0.5 ug/mL.
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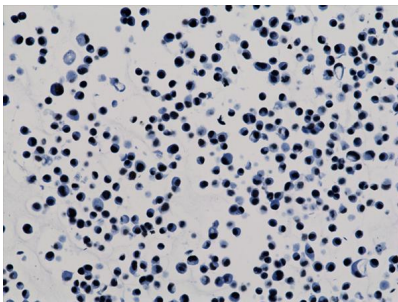
## Anti-Acetyl-Histone H3 (Lys9) H3F3A Rabbit Monoclonal Antibody, Clone#RM161 (M06819-11) Images



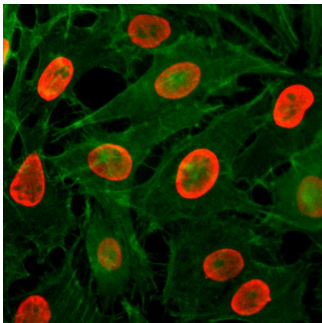
**Figure 1. Western Blotting result**  
Western Blot of acid extracts from HeLa cells untreated (-) or treated (+) with sodium butyrate, using RM161 at 0.25 ug/mL, showed a band of histone H3 acetylated at Lysine 9 in treated HeLa.



**Figure 2. Specificity Test result**  
RM161 specifically reacts to Histone H3 acetylated at Lysine 9 (K9ac). No cross reactivity with acetylated 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.

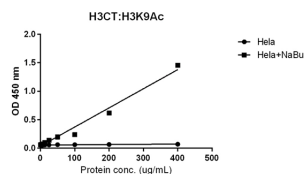


**Figure 3. IHC result**  
Immunohistochemistry staining of HepG2 cell using anti-Acetyl-Histone H3 (Lys9) antibody, RM161.

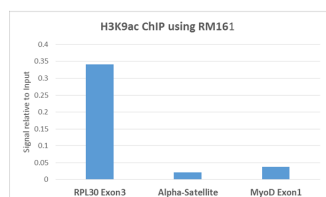


**Figure 4. ICC result**  
Immunocytochemistry of HeLa cells treated with sodium butyrate, using Acetyl-Histone H3 (Lys9) Rabbit mAb RM161 (red). Actin filaments have been labeled with fluorescein phalloidin (green).

**Figure 5. ELISA result showing specificity**  
Sandwich ELISA against acetylated histone H3 at Lys 9 using HeLa whole cell lysate, treated or untreated with Sodium Butyrate. Using anti-H3CT (RM188, 1 ug/mL) as the capture antibody and biotinylated anti-H3K9ac (RM161, 1 ug/mL) as the detection antibody.



**Figure 6. ChIP result**  
ChIP performed on HeLa cells using H3K9ac antibody (RM161, 5ug). Real-time PCR was performed using primers specific to the gene indicated.



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