

## 10-9551: Recombinant Rabbit Monoclonal Antibody to Dimethylated Histone H3 Lysine 9, H3K9me2 (Clone: RM151)(Discontinued)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	RM151
<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>	A dimethyl-peptide corresponding to Dimethyl-Histone H3 (Lys9).

### 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 RM151 reacts to Histone H3 dimethylated at Lysine 9 (K9me2). No cross reactivity with monomethylated Lysine 9 (K9me1), trimethylated Lysine 9 (K9me3), or other methylations in histone H3. Western Blot: 0.25 – 1 µg/ml; ChIP: 2 – 10 µg/ml; ICC: 0.5 – 2 µg/ml; ELISA: 0.2 – 1 µg/ml; Multiplex: 0.1 – 0.5 µg/ml.

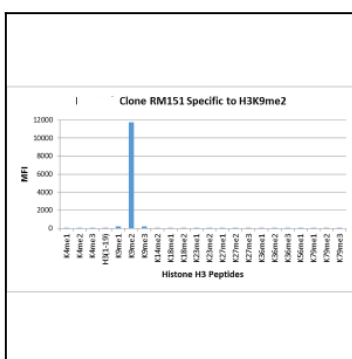


Figure 1: Clone: RM151 specifically reacts to Histone H3 dimethylated at Lysine 9 (K9me2). No cross reactivity with non-modified Lysine 9 (H3 1-19), monomethylated Lysine 9 (K9me1), trimethylated Lysine 9 (K9me3), or other methylations in Histone H3.

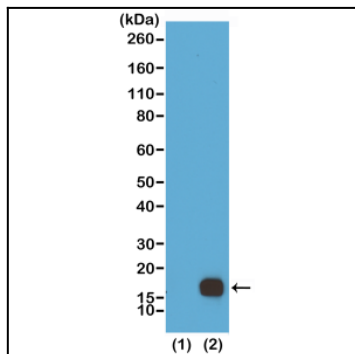


Figure 2: Western Blot of recombinant histone H3.3 (1) and acid extracts of HeLa cells (2), using Clone: RM151 at 0.5  $\mu$ g/ml, showed a band of histone H3 dimethylated at Lysine 9 (K9me2) in HeLa cells.

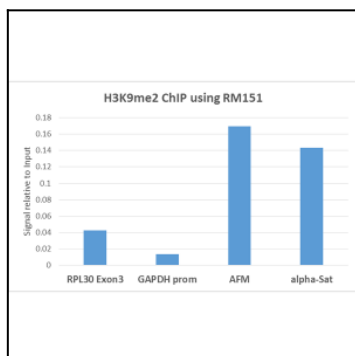


Figure 3: ChIP performed on HeLa cells using H3K9me2 antibody (Clone: RM151, 5  $\mu$ g). Real-time PCR was performed using primers specific to the gene indicated.

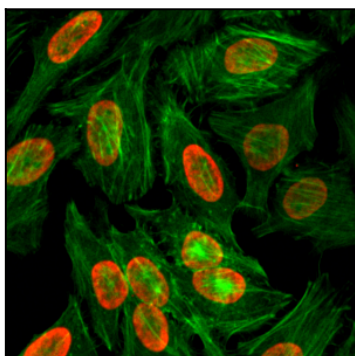


Figure 4: Immunocytochemistry of HeLa cells treated with sodium butyrate, using Dimethyl-Histone H3(Lys9) Rabbit mAb Clone: RM151 (red). Actin filaments have been labeled with fluorescein phalloidin (green).