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

Clonality :	Monoclonal
Clone Name :	RM151
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 :	A dimethyl-peptide corresponding to Dimethyl-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 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 Ã□Âµg/ml Ã□â□□ 1 Ã□Âµg/ml; ChIP: 2 Ã□Âµg/ml- 10 Ã□Âµg/ml; ICC: 0.5 Ã□Âµg/ml - 2 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.

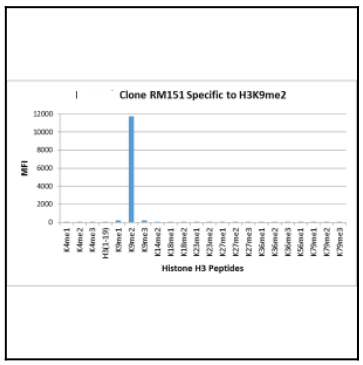

Figure 1: Clone: RM151 specifically reacts to Histone H3 dimethylatedat Lysine 9 (K9me2). No cross reactivity with non-modified Lysine 9 (H3 1-19), monomethylated Lysine 9 (K9me1), trimethylated Lysine 9 (K9me3), or other methylations in Histone H3.

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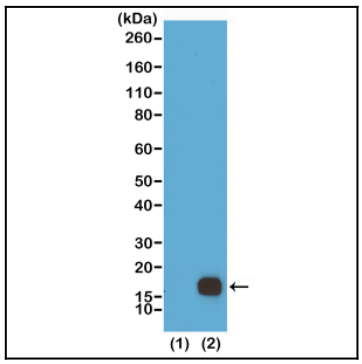

Figure 2: Western Blot of recombinant histone H3.3 (1) and acid extracts of HeLa cells (2), using Clone: RM151 at 0.5 µg/ml, showed a band of histone H3 dimethylated at Lysine 9 (K9me2) in HeLa cells.

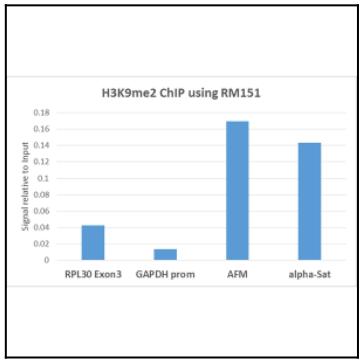

Figure 3: ChIP performed on HeLa cells using H3K9me2 antibody (Clone: RM151, 5 µg). Real-time PCR was performed using primers specific to the gene indicated.

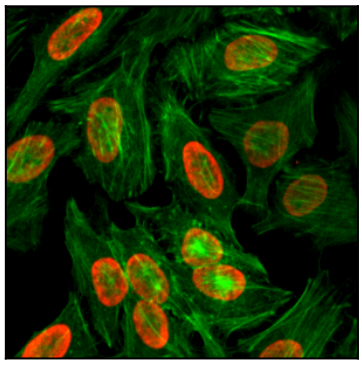

Figure 4: Immunocytochemistry of HeLa cells treated with sodium butyrate, using Dimethyl-Histone H3(Lys9) Rabbit mAb Clone: RM151 (red). Actin filaments have been labeled with fluorescein phalloidin (green).