

## 10-9540: Recombinant Rabbit Monoclonal Antibody to Monomethylated Histone H3 Lysine 4, H3K4me1 (Clone: RM140)(Discontinued)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	RM140
<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 monomethyl-peptide corresponding to Monomethyl-Histone H3 (Lys4)

### 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 RM140 reacts to Histone H3 monomethylated at Lysine 4 (K4me1). No cross reactivity with dimethylated Lysine 4 (K4me2), trimethylated Lysine 4 (K4me3), or other methylations in histone H3 Western Blot: 0.2 Åµg/ml ÅµgÅµg 1 ÅµgÅµg/ml; ChIP: 2 ÅµgÅµg/ml- 10 ÅµgÅµg/ml; ICC: 1 ÅµgÅµg/ml - 2 ÅµgÅµg/ml; ELISA: 0.2 ÅµgÅµg/ml - 1 ÅµgÅµg/ml; Multiplex: 0.1 ÅµgÅµg/ml ÅµgÅµg 0.5 ÅµgÅµg/ml.

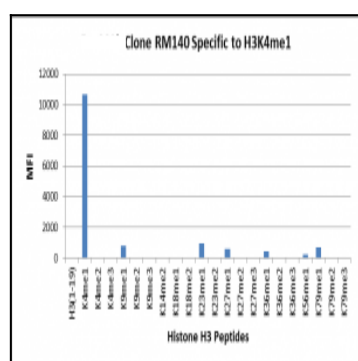


Figure 1: Clone: RM140 specifically reacts to Histone H3 monomethylated at Lysine 4 (K4me1). No cross reactivity with dimethylated Lysine 4 (K4me2), trimethylated Lysine 4 (K4me3), or other methylations in histone H3.

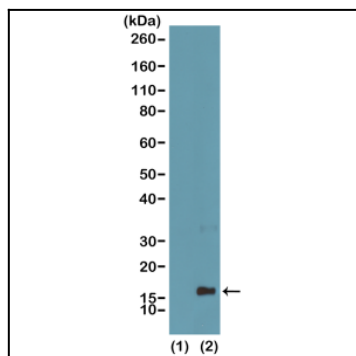


Figure 2: Western Blot of recombinant histone H3.3 (1) and acid extracts of HeLa cells (2), using Clone: RM140 at 0.5  $\mu$ g/ml, showed a band of histone H3 monomethylated at Lysine4 (K4me1) in HeLa cells.

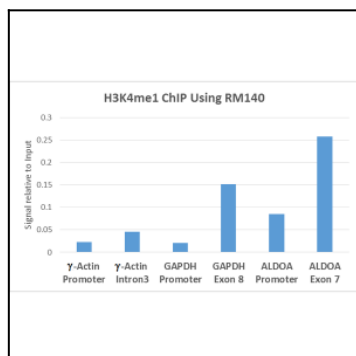


Figure 3: ChIP performed on HeLa cells using H3K4me1 antibody (Clone: RM140, 5ug). Real-time PCR was performed using primers specific to the gene indicated.

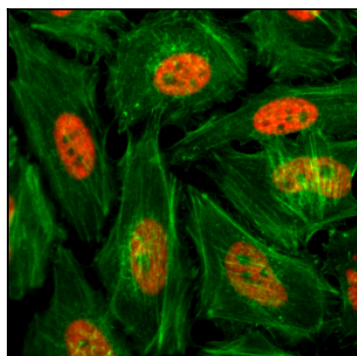


Figure 4: Immunocytochemistry of HeLa cells treated with sodium butyrate, using Monomethyl-Histone H3(Lys4) Rabbit mAb Clone: RM140 (red). Actin filaments have been labeled with fluorescein phalloidin (green).