

## 10-9568: Recombinant Rabbit Monoclonal Antibody to Histone H3 Unmodified Lysine 4 (Clone: RM186)(Discontinued)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	RM186
<b>Application :</b>	WB,ELISA,Multiplex,ICC
<b>Reactivity :</b>	All Species
<b>Gene :</b>	HIST3H3
<b>Gene ID :</b>	8290
<b>Uniprot ID :</b>	Q16695
<b>Format :</b>	Purified
<b>Alternative Name :</b>	H3/g, Histone H3.1t
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	An unmodified peptide corresponding to the N-terminus of Histone H3.

### 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 RM186 recognizes Histone H3 unmodified at Lys4 and does not recognize acetylated or methylated Lys4. The antibody binding specificity allows for modifications of Arg2, Thr3, and/or other modifications in Histone H3. Western Blot: 1 µg/ml - 2 µg/ml; ELISA: 0.5 µg/ml - 1 µg/ml; Multiplex: 0.5 µg/ml - 2 µg/ml; Immunocytochemistry: 0.5 µg/ml - 2 µg/ml.

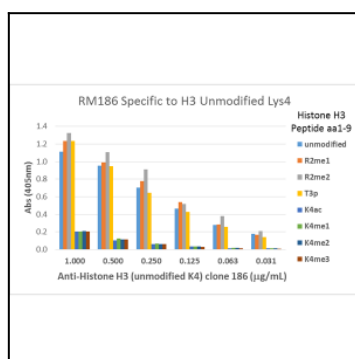


Figure 1: Clone: RM186 specifically recognizes Histone H3 unmodified at Lys4 and does not recognize acetylated, mono- methylated, dimethylated, or trimethylated Lys4. The antibody binding specificity allows for modifications of Arg2 or Thr3 in histone H3.

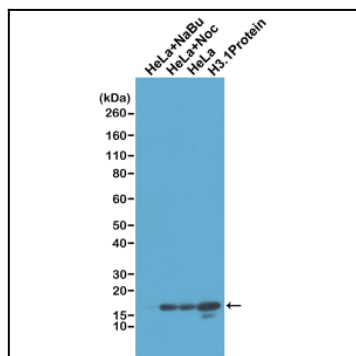


Figure 2: Western Blot of acid extracts of HeLa cells treated with sodium butyrate (HeLa+NaBu), treated with Nocodazole (HeLa+Noc), or non-treated; and recombinant histone H3.1 protein, using Clone: RM186 at 1  $\mu\text{g/ml}$ , showed a band of histone H3 with unmodified Lys4.

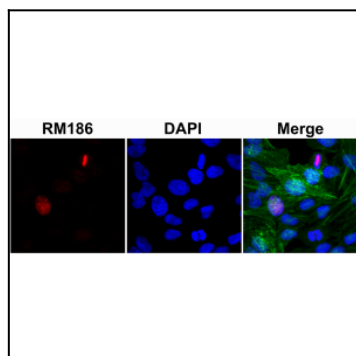


Figure 3: Immunocytochemical staining of HeLa cells treated with sodium butyrate, using anti-Acetyl-Histone H3 (Unmodified Lys4) Rabbit Monoclonal Antibody (Clone: RM186) (red). Actin filaments have been labeled with fluorescein phalloidin (green).