## Certificate of Analysis

Product:	Rabbit Monoclonal Antibody
	Anti-Histone H3 (Unmodified Lys4) Rabbit Monoclonal Antibody, Clone RM186
Catalog No.:	31-1086-00
Lot No.:	
Clone	RM186
Specificity	This antibody 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.
Application:	Western Blot, Immunocytochemistry, ELISA, Multiplex
Immunogen:	An unmodified peptide corresponding to the N-terminus of Histone H3.
Purity:	Protein A affinity purified from an animal origin–free culture supernatant
Size:	100 µg
Concentration:	1.0 mg/mL
Buffer:	50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
Usage:	WB: 1 µg/mL - 2 µg/mL; ICC: 0.5 µg/mL – 2 µg/mL; ELISA: 0.5 µg/mL - 1 µg/mL; Multiplex: 0.5 µg/mL – 2 µg/mL.
Storage and Stability:	Stable for 1 Year at -20.0°C from date of receipt.
Country of Origin:	U.S.A.
Intended Use:	**For Research Use Only Not for Diagnostic or Therapeutic Use**
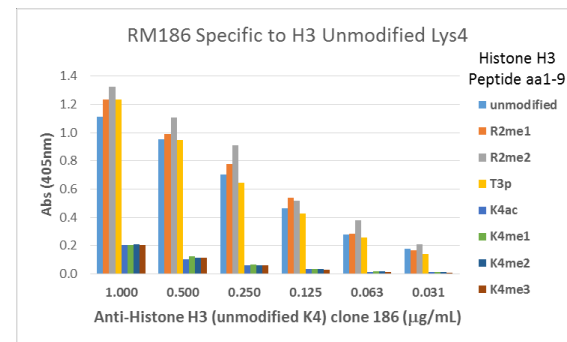
RM186 specifically recognizes Histone H3 unmodified at Lys4 and does not recognize acetylated, monomethylated, dimethylated, or trimethylated Lys4. The antibody binding specificity allows for modifications of Arg2 or Thr3 in histone H3.
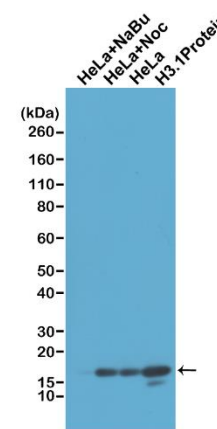
Western Blot of acid extracts of HeLa cells treated with sodium butyrate (HeLa+NaBu), treated with Nocodazole (HeLa+Noc), or non-treated; and recombinant histone H3.1 protein, using RM186 at 1 µg/mL, showed a band of histone H3 unmodified at Lys4.
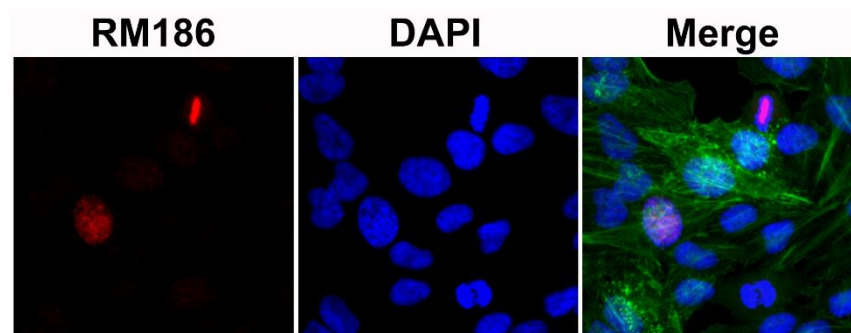
Immunocytochemical staining of HeLa cells using Anti-Histone H3 (Unmodified Lys4) (Clone RM186) (red). Actin filaments have been labeled with fluorescein phalloidin (green), and nuclei stained with DAPI (blue).