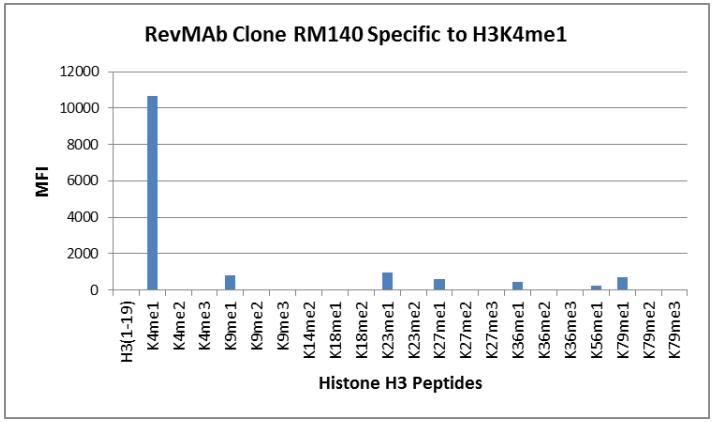
RevMAb Biosciences
www.revmab.com

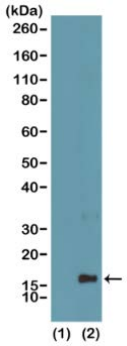
RevMAb Biosciences USA, Inc.
870 Dubuque Ave, South San Francisco, CA 94080, USA

Certificate of Analysis

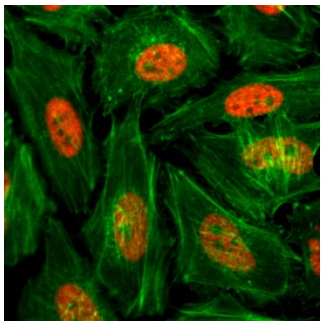
Product:	Rabbit Monoclonal Antibody Anti-Monomethyl-Histone H3 (Lys4) Rabbit Monoclonal Antibody, Clone RM140
Catalog No.:	31-1046-00
Lot No.:	
Clone	RM140
Specificity	This antibody reacts to Histone H3 monomethylated at Lysine 4 (K4me1). No cross reactivity with dimethylated Lysine 4 (K4me2), trimethylated Lysine 4 (K4me3), or other methylations in histone H3.
Application:	Western Blot, Immunocytochemistry, Chromatin IP, ELISA, Multiplex
Immunogen:	A monomethyl-peptide corresponding to Monomethyl-Histone H3 (Lys4).
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: 0.2 µg/mL – 1 µg/mL; ChIP: 2 µg/mL - 10 µg/mL; ICC: 1 µg/mL - 2 µg/mL; ELISA: 0.2 µg/mL - 1 µg/mL; Multiplex: 0.1 µg/mL – 0.5 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**



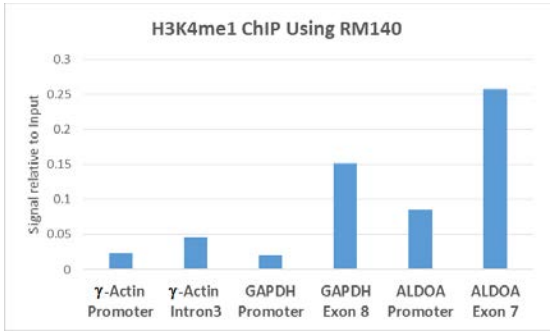
RM140 specifically reacts to Histone H3 monomethylated at Lysine 4 (K4me1). No cross reactivity with dimethylated Lysine 4 (K4me2), trimethylated Lysine 4 (K4me3), or other methylations in histone H3.



Western Blot of recombinant histone H3.3 (1) and acid extracts of HeLa cells (2), using RM140 at 0. 5 µg/mL, showed a band of histone H3 monomethylated at Lysine 4 (K4me1) in HeLa cells.



Immunocytochemistry of HeLa cells, using Monomethyl-Histone H3 (Lys4) Rabbit mAb RM140 (red). Actin filaments have been labeled with fluorescein phalloidin (green).



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