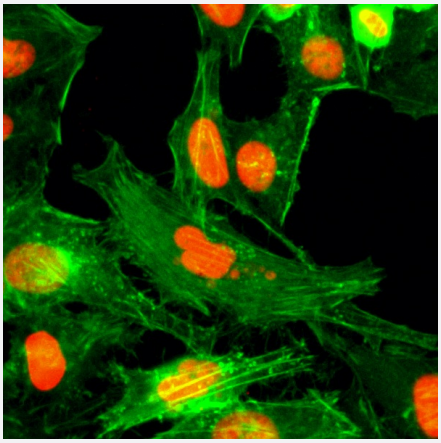
RecomAb™

Histone H4 (monomethyl R3) monoclonal antibody, clone RM195

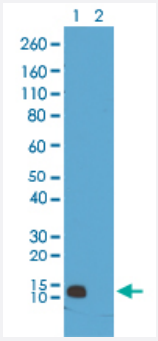
Catalog # MAB12784 Size 100 ug

Applications



Immunocytochemistry

Immunocytochemical staining of HeLa cells treated with sodium butyrate, using Histone H4 (monomethyl R3) monoclonal antibody, clone RM195 (Cat# MAB12784) (red). Actin filaments have been labeled with fluorescein phalloidin (green).



Western Blot

Western blot analysis of Lane 1: acid extracts of HeLa cell and Lane 2: recombinant Histone H4 with Histone H4 (monomethyl R3) monoclonal antibody, clone RM195 (Cat # MAB12784) at 0.5 ug/mL working concentration, showed a band of Histone H4 monomethylated at Arginine 3.

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This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Histone H4 (monomethyl R3) monoclonal antibody, clone RM195 (Cat# MAB12784) specifically reacts to Histone H4 mono- methylated at Arginine 3 (R3me1). No cross reactivity with unmodified Arg 3 (R3 ctrl), asymmetric dimethylated Arg 3 (R3me2a) or symmetric dimethylated Arg 3 (R3me2s), and citrullinated Arg 3 (R3Cit) in Histone H4.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against of human histone H4 (monomethyl R3).
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic monomethyl peptide corresponding to residues surrounding R3 of human Histone H4.
Sequence	N/A
Specificity	This antibody reacts to Histone H4 monomethylated at Arginine 3. No cross reactivity with unmodified Arginine 3, asymmetric or symmetric dimethylated Arginine 3, and citrullinated Arginine 3 in Histone H4.
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	ELISA (0.2 ug/mL-1 ug/mL) Western Blot (0.5 ug/mL-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1% BSA, 0.09% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

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Applications

- Immunocytochemistry

  Immunocytochemical staining of HeLa cells treated with sodium butyrate, using Histone H4 (monomethyl R3) monoclonal antibody, clone RM195 (Cat# MAB12784) (red). Actin filaments have been labeled with fluorescein phalloidin (green).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western blot analysis of Lane 1: acid extracts of HeLa cell and Lane 2: recombinant Histone H4 with Histone H4 (monomethyl R3) monoclonal antibody, clone RM195 (Cat # MAB12784) at 0.5 ug/mL working concentration, showed a band of Histone H4 monomethylated at Arginine 3.

Gene Info — HIST4H4

Entrez GeneID	121504
Protein Accession#	P62805
Gene Name	HIST4H4
Gene Alias	H4/p, MGC24116
Gene Description	histone cluster 4, H4
Gene Ontology	Hyperlink
Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chro mosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped aro und a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H 4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H4 family. Transcripts from this gene lack polyA tails; inste ad, they contain a palindromic termination element. [provided by RefSeq
Other Designations	histone 4, H4|histone H4

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Pathway

- Systemic lupus erythematosus

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