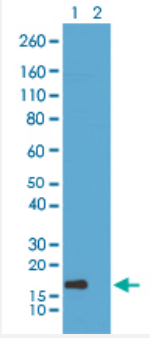
RecomAb™

Histone H3 (acetyl K56) monoclonal antibody, clone RM179

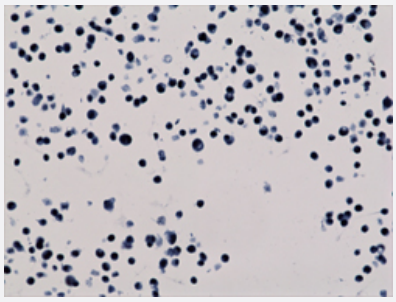
Catalog # MAB12782 Size 100 ug

Applications



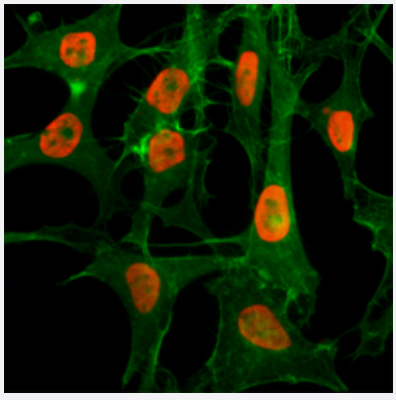
Western Blot

Western blot analysis of Lane 1: acid extracts of HeLa cell treated with sodium butyrate and Lane 2: recombinant Histone H3.3 with Histone H3 (acetyl K56) monoclonal antibody, clone RM179 (Cat # MAB12782) at 1 ug/mL working concentration, showed a band of Histone H3 acetylated at Lysine 56.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of HepG2 cells with Histone H3 (acetyl K56) monoclonal antibody, clone RM179 (Cat # MAB12782).



Immunocytochemistry

Immunocytochemical staining of HeLa cells treated with sodium butyrate with Histone H3 (acetyl K56) monoclonal antibody, clone RM179 (Cat # MAB12782) (Red). Actin filaments have been labeled with fluorescein phalloidin (Green).

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

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

Histone H3 (acetyl K56) monoclonal antibody, clone RM179 (Cat# MAB12782) specifically reacts to Histone H3 acetylated at Lysine 56 (K56ac). No cross reactivity with unmodified Lysine 56 (K56 ctrl), acetylated Lysine 4 (K4ac), Lysine 9 (K9ac), Lysine 14 (K14ac), Lysine 18 (K18ac), Lysine 23 (K23ac), Lysine 27 (K27ac), Lysine 36 (K36ac), lysine 79 (K79ac), or Lysine 122 (K122) in histone H3.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against of human histone H3 (acetyl K56).
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic acetyl peptide corresponding to residues surrounding K79 of human Histone H3.
Sequence	N/A
Specificity	This antibody reacts to Histone H3 acetylated at Lysine 56. No cross reactivity with other acetylated Lysines in histone H3.
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	ELISA (0.5 ug/mL-1 ug/mL) Immunocytochemistry (0.5 ug/mL-2 ug/mL) Immunohistochemistry (1 ug/mL-10 ug/mL) Western Blot (1 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.

Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. Histone H3 (acetyl K56) monoclonal antibody, clone RM179 (Cat# MAB12782) specifically reacts to Histone H3 acetylated at Lysine 56 (K56ac). No cross reactivity with unmodified Lysine 56 (K56 ctrl), acetylated Lysine 4 (K4ac), Lysine 9 (K9ac), Lysine 14 (K14ac), Lysine 18 (K18ac), Lysine 23 (K23 ac), Lysine 27 (K27ac), Lysine 36 (K36ac), lysine 79 (K79ac), or Lysine 122 (K122) in histone H3.

Applications

- Western Blot

  Western blot analysis of Lane 1: acid extracts of HeLa cell treated with sodium butyrate and Lane 2: recombinant Histone H3.3 with Histone H3 (acetyl K56) monoclonal antibody, clone RM179 (Cat # MAB12782) at 1 ug/mL working concentration, showed a band of Histone H3 acetylated at Lysine 56.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of HepG2 cells with Histone H3 (acetyl K56) monoclonal antibody, clone RM179 (Cat # MAB12782).

- Immunocytochemistry

  Immunocytochemical staining of HeLa cells treated with sodium butyrate with Histone H3 (acetyl K56) monoclonal antibody, clone RM179 (Cat # MAB12782) (Red). Actin filaments have been labeled with fluorescein phalloidin (Green).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — HIST1H3A

Entrez GeneID	8350
Protein Accession#	P84243
Gene Name	HIST1H3A
Gene Alias	H3/A, H3FA
Gene Description	histone cluster 1, H3a
Omim ID	602810
Gene Ontology	Hyperlink

Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chro mosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped ar ound a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H 1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H3 family. Transcripts from this gene lack polyA t ails; instead, they contain a palindromic termination element. This gene is found in the large histon e gene cluster on chromosome 6p22-p21.3. [provided by RefSeq
Other Designations	H3 histone family, member A|histone 1, H3a

Pathway

- Systemic lupus erythematosus