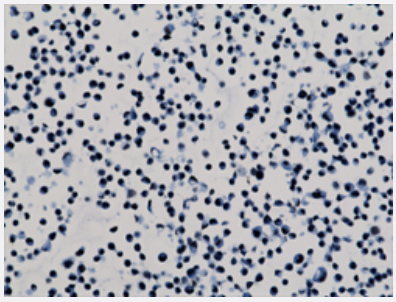
RecomAb™

Histone H3 (dimethyl K79) monoclonal antibody, clone RM181

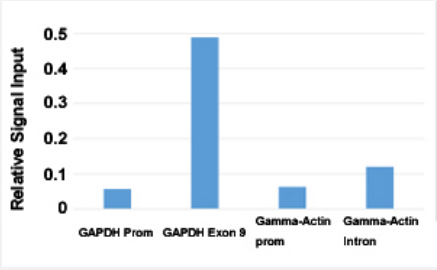
Catalog # MAB12781 Size 100 ug

Applications



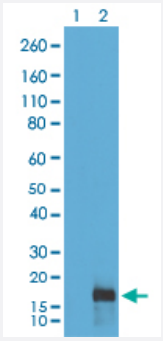
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of HepG2 cells with Histone H3 (dimethyl K79) monoclonal antibody, clone RM181 (Cat # MAB12781).



ChIP

Chromatin Immunoprecipitation (ChIP) analysis of HeLa cells with Histone H3 (dimethyl K79) monoclonal antibody, clone RM181 (Cat # MAB12781) at 5 ug/mL working concentration. Real-time PCR was performed using primers specific to the gene indicated.



Western Blot

Western blot analysis of Lane 1: recombinant Histone H3.3 and Lane 2: acid extracts of HeLa cell with Histone H3 (dimethyl K79) monoclonal antibody, clone RM181 (Cat # MAB12781) at 0.25 ug/mL working concentration, showed a band of Histone H3 dimethylated at Lysine 79.

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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 H3 (dimethyl K79) monoclonal antibody, clone RM181 (Cat# MAB12781) specifically reacts to Histone H3 dimethylated at Lysine 79 (K79me2). Very slightly cross reactivity with monomethylated Lysine 14 (K14me1), and no cross reactivity with non-modified Lysine 79 (K79 ctrl), trimethylated Lysine 79 (K79me3), or other methylations in Histone H3.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against of human histone H3 (dimethyl K79).
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic dimethyl peptide corresponding to residues surroundin g K79 of human Histone H3.
Sequence	N/A
Specificity	This antibody reacts to Histone H3 dimethylated at Lysine 79. No cross reactivity with monomethylate d Lysine 79 or trimethylated Lysine 79, or other methylation in histone H3.
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	ChIP (2 ug/mL- 10 ug/mL) ELISA (0.2 ug/mL-1 ug/mL) Immunohistochemistry (0.1 ug/mL-1 ug/mL) Western Blot (0.25 ug/mL-1 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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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 (dimethyl K79) monoclonal antibody, clone RM181 (Cat# MAB12781) specifically reacts to Histone H3 dimethylated at Lysine 79 (K79me2). Very slightly cross reactivity with monomethylate d Lysine 14 (K14me1), and no cross reactivity with non-modified Lysine 79 (K79 ctrl), trimethylated L ysine 79 (K79me3), or other methylations in Histone H3.

Applications

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

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of HepG2 cells with Histone H3 (dimethyl K79) monoclonal antibody, clone RM181 (Cat # MAB12781).

- Enzyme-linked Immunoabsorbent Assay

- ChIP

  Chromatin Immunoprecipitation (ChIP) analysis of HeLa cells with Histone H3 (dimethyl K79) monoclonal antibody, clone RM181 (Cat # MAB12781) at 5 ug/mL working concentration. Real-time PCR was performed using primers specific to the gene indicated.

- Western Blot

  Western blot analysis of Lane 1: recombinant Histone H3.3 and Lane 2: acid extracts of HeLa cell with Histone H3 (dimethyl K79) monoclonal antibody, clone RM181 (Cat # MAB12781) at 0.25 ug/mL working concentration, showed a band of Histone H3 dimethylated at Lysine 79.

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

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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

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