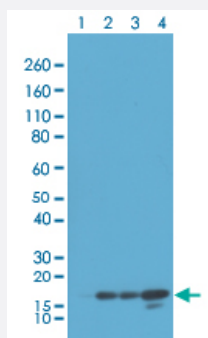


RecomAb™

Histone H3 (K4) monoclonal antibody, clone RM186

Catalog # MAB12789 Size 100 ug

Applications

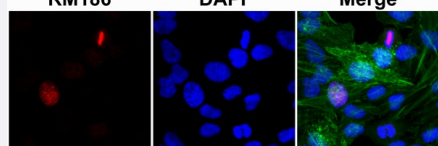


Western Blot

Western blot analysis of Lane 1: acid extracts of HeLa cell treated with sodium butyrate (HeLa+NaBu), Lane 2: acid extracts of HeLa cell treated with Nocodazole (HeLa+Noc), Lane 3: acid extracts of HeLa cell untreated and Lane 4: recombinant Histone H3.1 with Histone H3 (K4) monoclonal antibody, clone RM186 (Cat # MAB12789) at 1 ug/mL working concentration, showed a band of Histone H3 with unmodified Lysine 4.

Immunocytochemistry

Immunocytochemical staining of HeLa cells treated with sodium butyrate, using Histone H3 (K4) monoclonal antibody, clone RM186 (Cat# MAB12789) (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.

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Histone H3 (K4) monoclonal antibody, clone RM186 (Cat# MAB12789) specifically recognizes Histone H3 unmodified at Lys4 and does not recognize acetylated, mono- methylated, dimethylated, or trimethylated Lys4. The antibody binding specificity allows for modifications of Arg2 or Thr3 in histone H3.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against of human histone H3 (K4).
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to residues surrounding K4 at N-terminus region of human Histone H3.
Sequence	N/A
Specificity	This antibody recognizes Histone H3 that is unmodified at Lys 4 but does not recognize acetylated or methylated Lys 4. The antibody binding specificity allows for modifications of Arg 2, Thr 3, and/or other modifications in Histone H3.
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	ELISA (0.5 ug/mL-1 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

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — HIST1H3A

Entrez GeneID	8350
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Protein Accession#	Q16695
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Gene Name	HIST1H3A
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Gene Alias	H3/A, H3FA
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Gene Description	histone cluster 1, H3a
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Omim ID	602810
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Gene Ontology	Hyperlink
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Gene Summary

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around 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, H1, 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 tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq]

Other Designations

H3 histone family, member A|histone 1, H3a

Pathway

- [Systemic lupus erythematosus](#)