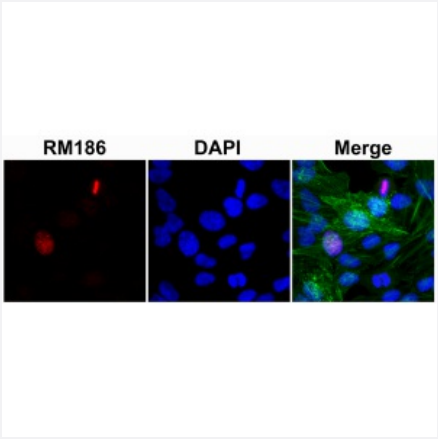
RecomAb™ Sm Size

Histone H3 (K4) monoclonal antibody, clone RM186

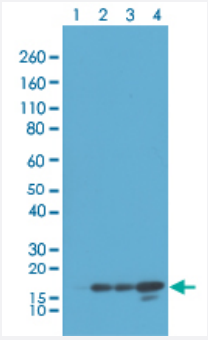
Catalog # RAB09455 Size 25 ug

Applications



Immunocytochemistry

Immunocytochemical staining of HeLa cells treated with sodium butyrate, using Histone H3 (K4) monoclonal antibody, clone RM186 (Cat# RAB09455) (red). Actin filaments have been labeled with fluorescein phalloidin (green).



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) recombinant monoclonal antibody, clone RM186 (Cat # RAB09455) at 1 ug/mL working concentration, showed a band of Histone H3 with unmodified Lysine 4.

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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 oth er 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	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunocytochemistry

  Immunocytochemical staining of HeLa cells treated with sodium butyrate, using Histone H3 (K4) monoclonal antibody, clone RM186 (Cat# RAB09455) (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 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) recombinant monoclonal antibody, clone RM186 (Cat # RAB09455) at 1 ug/mL working concentration, showed a band of Histone H3 with unmodified Lysine 4.

Gene Info — HIST1H3A

Entrez GeneID	8350
Protein Accession#	Q16695
Gene Name	HIST1H3A
Gene Alias	H3/A, H3FA

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.