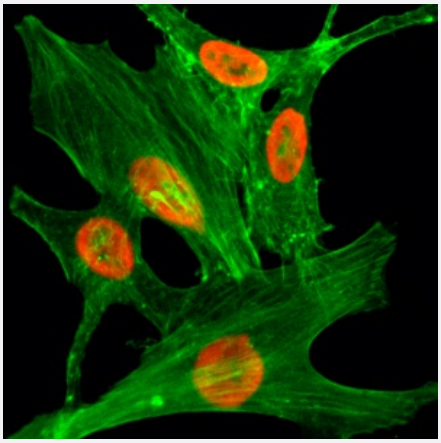
RecomAb™ Sm Size

Histone H2AZ (acetyl K4) monoclonal antibody, clone RM221

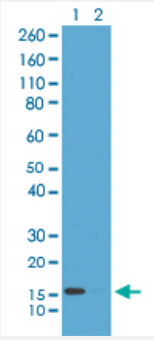
Catalog # RAB09466 Size 25 ug

Applications



Immunocytochemistry

Immunocytochemical staining of HeLa cells treated with sodium butyrate, using Histone H2AZ (acetyl K4) monoclonal antibody, clone RM221 (Cat# RAB09466) (red). Actin filamentshave been labeled with fluorescein phalloidin (green).



Western Blot (Cell lysate)

Western Blot analysis of Lane 1: acid extracts of HeLa cell treated with sodium butyrate and Lane 2: acid extracts of HeLa cell untreated with Histone H2AZ (acetyl K4) recombinant monoclonal antibody, clone RM221 (Cat # RAB09466) at 0.5 ug/mL working concentration, showed a band of Histone H2AZ acetylated at Lysine 4.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against of human histone H2AZ (acetyl K4).
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic acetyl peptide corresponding to residues surrounding K4 of human Histone H2AZ.
Sequence	N/A

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Specificity	This antibody reacts to Histone H2AZ acetylated at Lysine 4. No cross reactivity with non-modified Lysine 4 or other acetylated Lysines in histone H2A
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.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunocytochemistry

  Immunocytochemical staining of HeLa cells treated with sodium butyrate, using Histone H2AZ (acetyl K4) monoclonal antibody, clone RM221 (Cat# RAB09466) (red). Actin filaments have been labeled with fluorescein phalloidin (green).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western Blot analysis of Lane 1: acid extracts of HeLa cell treated with sodium butyrate and Lane 2: acid extracts of HeLa cell untreated with Histone H2AZ (acetyl K4) recombinant monoclonal antibody, clone RM221 (Cat # RAB09466) at 0.5 ug/mL working concentration, showed a band of Histone H2AZ acetylated at Lysine 4.

Gene Info — H2AFZ

Entrez GeneID	3015
Protein Accession#	P0C0S5
Gene Name	H2AFZ
Gene Alias	H2A.z, H2A/z, H2AZ, MGC117173
Gene Description	H2A histone family, member Z

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Omim ID	142763
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 encodes a r eplication-independent member of the histone H2A family that is distinct from other members of th e family. Studies in mice have shown that this particular histone is required for embryonic develop ment and indicate that lack of functional histone H2A leads to embryonic lethality. [provided by Ref Seq
Other Designations	H2AZ histone

Pathway

- Systemic lupus erythematosus

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