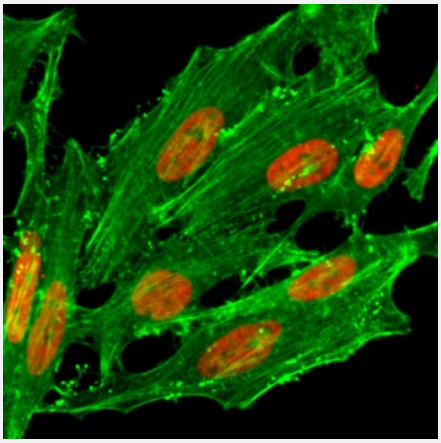
RecomAb™ Sm Size

# Histone H2AZ (acetyl K7) monoclonal antibody, clone RM222

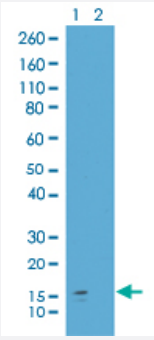
Catalog # RAB09467 Size 25 ug

## Applications



### Immunocytochemistry

Immunocytochemical staining of HeLa cells treated with sodium butyrate, using Histone H2AZ (acetyl K7) monoclonal antibody, clone RM222 (Cat# RAB09467) (red). Actin filaments have 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 K7) recombinant monoclonal antibody, clone RM222 (Cat # RAB09467) at 0.5 ug/mL working concentration, showed a band of Histone H2AZ acetylated at Lysine 7.

## Specification

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|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against of human histone H2AZ (acetyl K7). |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic acetyl peptide corresponding to residues surrounding K7 of human Histone H2AZ. |
| **Sequence** | N/A |

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|---|---|
| **Specificity** | This antibody reacts to Histone H2AZ acetylated at Lysine 7. No cross reactivity with non-modified Lysine 7 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)<br>Western Blot (0.5 ug/mL-2 ug/mL)<br>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.<br>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 K7) monoclonal antibody, clone RM222 (Cat# RAB09467) (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 K7) recombinant monoclonal antibody, clone RM222 (Cat # RAB09467) at 0.5 ug/mL working concentration, showed a band of Histone H2AZ acetylated at Lysine 7.

## Gene Info — H2AFZ

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|---|---|
| **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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