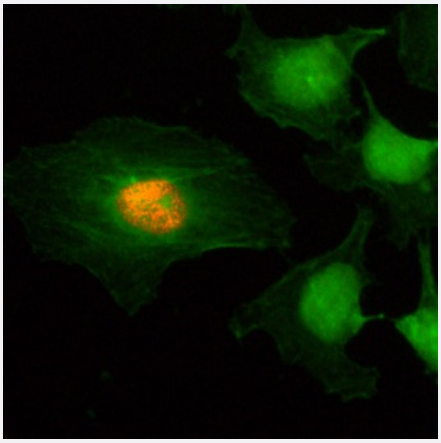
RecomAb™ Sm Size

# Histone H2A/H4 (phospho S1) monoclonal antibody, clone RM216

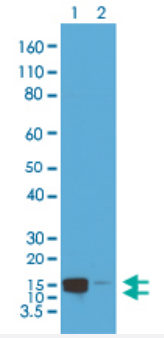
Catalog # RAB09458 Size 25 ug

## Applications



### Immunocytochemistry

Immunocytochemistry of HeLa cells, using Histone H2A/H4 (phospho S1) monoclonal antibody, clone RM216 (Cat# RAB09458) (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 Nocodazole and Lane 2: acid extracts of HeLa cell untreated with Histone H2A/H4 (phospho S1) recombinant monoclonal antibody, clone RM216 (Cat # RAB09458) at 0.5 ug/mL working concentration, showed a band of Histone H2A and H4 phosphorylated at Serine 1.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against of human histone H2A/H4 (S1). |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g S1 of human Histone H2A. |
| **Sequence** | N/A |

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| | |
|---|---|
| **Specificity** | This antibody reacts to Histone H4 or Histone H2A phosphorylated at Serine 1. No cross reactivity with other phosphorylated Histones. |
| **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

  Immunocytochemistry of HeLa cells, using Histone H2A/H4 (phospho S1) monoclonal antibody, clone RM216 (Cat# RAB09458) (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 Nocodazole and Lane 2: acid extracts of HeLa cell untreated with Histone H2A/H4 (phospho S1) recombinant monoclonal antibody, clone RM216 (Cat # RAB09458) at 0.5 ug/mL working concentration, showed a band of Histone H2A and H4 phosphorylated at Serine 1.

## Gene Info — HIST1H2AE

| | |
|---|---|
| **Entrez GeneID** | 3012 |
| **Protein Accession#** | P16104;P62805 |
| **Gene Name** | HIST1H2AE |
| **Gene Alias** | H2A.1, H2A.2, H2A/a, H2AFA |
| **Gene Description** | histone cluster 1, H2ae |

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| | |
|---|---|
| **Omim ID** | 602786 |
| **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 is intronless and encodes a member of the histone H2A family. Transcripts from this gene lack polyA tails; inst ead, 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** | H2A histone family, member A\|histone 1, H2ae\|histone H2AE |

## Gene Info — HIST4H4

| | |
|---|---|
| **Entrez GeneID** | 121504 |
| **Protein Accession#** | P16104;P62805 |
| **Gene Name** | HIST4H4 |
| **Gene Alias** | H4/p, MGC24116 |
| **Gene Description** | histone cluster 4, H4 |
| **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 is intronless and encodes a member of the histone H4 family. Transcripts from this gene lack polyA tails; inste ad, they contain a palindromic termination element. [provided by RefSeq |
| **Other Designations** | histone 4, H4\|histone H4 |

## Pathway

- Systemic lupus erythematosus

- Systemic lupus erythematosus

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