

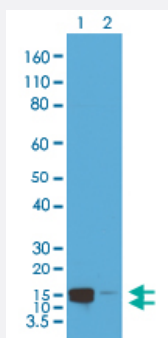
RecomAb™

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

Catalog # MAB12792

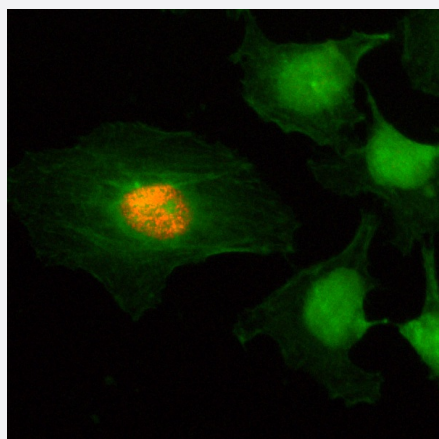
Size 100 ug

## Applications



### 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) monoclonal antibody, clone RM216 (Cat # MAB12792) at 0.5 ug/mL working concentration, showed a band of Histone H2A and H4 phosphorylated at Serine 1.



### Immunocytochemistry

Immunocytochemistry of HeLa cells, using Histone H2A/H4 (phospho S1) monoclonal antibody, clone RM216 (Cat# MAB12792) (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 H2A/H4 (phospho S1) monoclonal antibody, clone RM216 (Cat# MAB12792) specifically reacts to both Histone H2A and H4 phosphorylated at Serine 1 (H2AS1p and H4S1p).

## 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 surrounding S1 of human Histone H2A.
Sequence	N/A
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) 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	<p>This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.</p> <p>This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.</p> <p>Histone H2A/H4 (phospho S1) monoclonal antibody, clone RM216 (Cat# MAB12792) specifically reacts to both Histone H2A and H4 phosphorylated at Serine 1 (H2AS1p and H4S1p).</p>

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- Enzyme-linked Immunoabsorbent Assay

## 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

Omim ID [602786](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone 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 H2A 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** 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 chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone 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 H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. [provided by RefSeq]

**Other Designations**

histone 4, H4|histone H4

**Pathway**

- [Systemic lupus erythematosus](#)
- [Systemic lupus erythematosus](#)