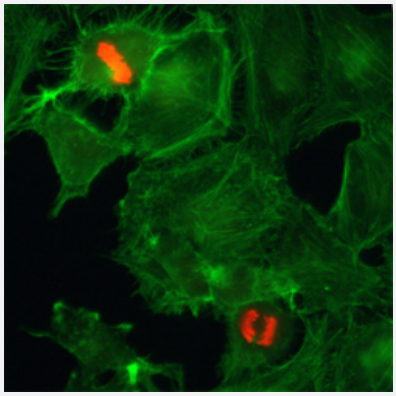
RecomAb™ Sm Size

# Histone H3 (phospho S10) monoclonal antibody, clone RM163

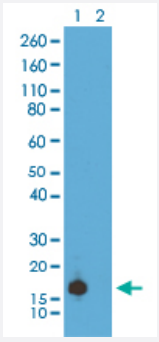
Catalog # RAB09459 Size 25 ug

## Applications



### Immunocytochemistry

Immunocytochemical staining of HeLa cells with Histone H3 (phospho S10) recombinant monoclonal antibody, clone RM163 (Cat # RAB09459) (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 H3 (phospho S10) recombinant monoclonal antibody, clone RM163 (Cat # RAB09459) at 0.5 ug/mL working concentration, showed a band of Histone H3 phosphorylated at Serine 10.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against of human histone H3 (S10). |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g S10 of human Histone H3. |
| **Sequence** | N/A |

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|---|---|
| **Specificity** | This antibody reacts to Histone H3 phosphorylated at Serine 10. 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>Immunocytochemistry (0.5 ug/mL-2 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 with Histone H3 (phospho S10) recombinant monoclonal antibody, clone RM163 (Cat # RAB09459) (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 H3 (phospho S10) recombinant monoclonal antibody, clone RM163 (Cat # RAB09459) at 0.5 ug/mL working concentration, showed a band of Histone H3 phosphorylated at Serine 10.

## Gene Info — HIST1H3A

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|---|---|
| **Entrez GeneID** | 8350 |
| **Protein Accession#** | P84243 |
| **Gene Name** | HIST1H3A |
| **Gene Alias** | H3/A, H3FA |

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

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