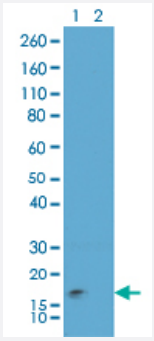
RecomAb™

# Histone H3 (trimethyl K9/phospho S10) monoclonal antibody, clone RM162

Catalog # MAB12797 Size 100 ug

## Applications




### Western Blot

Western blot analysis of Lane 1: acid extracts of HeLa cell and Lane 2: recombinant Histone H3.3 with Histone H3 (trimethyl K9/phospho S10) monoclonal antibody, clone RM162 (Cat # MAB12797) at 0.01 ug/mL working concentration, showed a band of Histone H3 modified by both trimethylation at Lysine 9 and phosphorylation at Serine 10.

### This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Histone H3 (trimethyl K9/phospho S10) monoclonal antibody, clone RM162 (Cat# MAB12797) specifically reacts to Histone H3 only when modified by both trimethylation at lysine 9 and phosphorylation at serine 10 (K9me3/S10p). No cross reactivity with non-modified Lysine 9/ Serine 10, methylated Lysine 9 (K9me1, k9me2, k9me3) ONLY, or phosphorylation at Serine 9 ONLY in Histone H3.

## Specification

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| **Product Description** | Rabbit recombinant monoclonal antibody raised against of human histone H3 (trimethyl-K9/phospho S10). |

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| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic trimethyl-phospho-peptide corresponding to residues surrounding trimethyl K9 and phospho S10 of human Histone H3. |
| **Sequence** | N/A |
| **Specificity** | This antibody reacts to Histone H3 only when modified AT both trimethyl lysine 9 and phospho serine 10. |
| **Form** | Liquid |
| **Purification** | Protein A purification |
| **Isotype** | IgG |
| **Recommend Usage** | ELISA (0.01 ug/mL-0.5 ug/mL)<br>Western Blot (0.01 ug/mL-1 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. |
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## Applications

- Western Blot

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — HIST1H3A

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| **Entrez GeneID** | 8350 |

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| **Protein Accession#** | P84243 |
| **Gene Name** | HIST1H3A |
| **Gene Alias** | H3/A, H3FA |
| **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