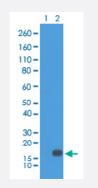


RecomAb™

Histone H3 (dimethyl K18) monoclonal antibody, clone RM168

Catalog # MAB12778 Size 100 ug

Applications



K18Ctrl K18me1 K18me2 K4me2 K36me2 2 ug/mL 1 ug/mL 0.5 ug/mL

Western Blot

Western blot analysis of Lane 1: recombinant Histone H3.3 and Lane 2: acid extracts of HeLa cell with Histone H3 (dimethyl K18) monoclonal antibody, clone RM168 (Cat # MAB12778) at 0.5 ug/mL working concentration, showed a band of Histone H3 dimethylated at Lysine 18.

Dot Blot (Peptide)

Dot Blot (Peptide) analysis of Histone H3 (dimethyl K18) monoclonal antibody, clone RM168 (Cat # MAB12778) only reacted to Histone H3 dimethyl-Lysine 18 (K18me2). No cross reactivity with nonmodified Lysine 18 (K18Ctrl), monomethylated Lysine 18 (K18me1), dimethylated Lysine 4 (K4me2), or dimethylated Lysine 36 (K36me2).

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

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Histone H3 (dimethyl K18) monoclonal antibody, clone RM168 (Cat# MAB12778) specifically reacts to Histone H3 dimethylated at Lysine 18 (K18me2). No cross reactivity with other methylated lysines in Histone H3.

Specification

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Product Information

| Product Description | Rabbit recombinant monoclonal antibody raised against of human histone H3 (dimethyl K18). |
|---------------------|--|
| Antibody Species | Rabbit |
| Immunogen | Original antibody is raised against a synthetic dimethyl peptide corresponding to residues surroundin g K18 of human Histone H3. |
| Sequence | N/A |
| Specificity | This antibody reacts to Histone H3 dimethylated at Lysine 18. No cross reactivity with monomethylate d Lysine 18 or trimethylated Lysine 18, or other methylation in histone H3. |
| Form | Liquid |
| Purification | Protein A purification |
| Isotype | lgG |
| Recommend Usage | Dot Blot ELISA (0.1 ug/mL-0.5 ug/mL) Western Blot (0.2 ug/mL-1 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 | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. Histone H3 (dimethyl K18) monoclonal antibody, clone RM168 (Cat# MAB12778) specifically reacts to Histone H3 dimethylated at Lysine 18 (K18me2). No cross reactivity with other methylated lysines i n Histone H3. |

Applications

Western Blot

Western blot analysis of Lane 1: recombinant Histone H3.3 and Lane 2: acid extracts of HeLa cell with Histone H3 (dimethyl K18) monoclonal antibody, clone RM168 (Cat # MAB12778) at 0.5 ug/mL working concentration, showed a band of Histone H3 dimethylated at Lysine 18.

Enzyme-linked Immunoabsorbent Assay

• Dot Blot (Peptide)

Dot Blot (Peptide) analysis of Histone H3 (dimethyl K18) monoclonal antibody, clone RM168 (Cat # MAB12778) only reacted to Histone H3 dimethyl-Lysine 18 (K18me2). No cross reactivity with nonmodified Lysine 18 (K18Ctrl), monomethylated Lysine 18 (K18me1), dimethylated Lysine 4 (K4me2), or dimethylated Lysine 36 (K36me2).

Gene Info — HIST1H3A

| Entrez GenelD | <u>8350</u> |
|--------------------|---|
| Protein Accession# | <u>P84243</u> |
| Gene Name | HIST1H3A |
| Gene Alias | H3/A, H3FA |
| Gene Description | histone cluster 1, H3a |
| Omim ID | <u>602810</u> |
| 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