

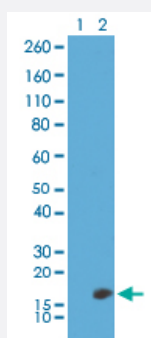
RecomAb™

Histone H3 (dimethyl K23) monoclonal antibody, clone RM171

Catalog # MAB12780

Size 100 ug

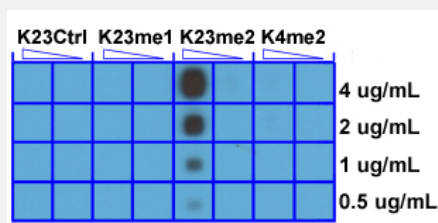
Applications



Western Blot

Western blot analysis of Lane 1: recombinant Histone H3.3 and Lane 2: acid extracts of HeLa cell with Histone H3 (dimethyl K23) monoclonal antibody, clone RM171 (Cat # MAB12780) at 0.5 ug/mL working concentration, showed a band of Histone H3 dimethylated at Lysine 23.

Dot Blot (Peptide)



Dot Blot (Peptide) analysis of Histone H3 (dimethyl K23) monoclonal antibody, clone RM171 (Cat # MAB12780) only reacted to Histone H3 dimethyl-Lysine 23 (K23me2). No cross reactivity with nonmodified Lysine 23 (K23Ctrl), monomethylated Lysine 23 (K23me1), or dimethylated Lysine 4 (K4me2).

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 K23) monoclonal antibody, clone RM171 (Cat# MAB12780) specifically reacts to Histone H3 dimethylated at Lysine 23 (K23me2). No cross reactivity with other methylated lysines in Histone H3.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against of human histone H3 (dimethyl K23).
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic dimethyl peptide corresponding to residues surrounding K23 of human Histone H3.
Sequence	N/A
Specificity	This antibody reacts to Histone H3 dimethylated at Lysine 23. No cross reactivity with monomethylated Lysine 23 or trimethylated Lysine 23, or other methylation in histone H3.
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Dot Blot ELISA (0.1 ug/mL-0.5 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 H3 (dimethyl K23) monoclonal antibody, clone RM171 (Cat# MAB12780) specifically reacts to Histone H3 dimethylated at Lysine 23 (K23me2). No cross reactivity with other methylated lysines in Histone H3.</p>

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- Enzyme-linked Immunoabsorbent Assay

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Gene Info — HIST1H3A

Entrez GeneID [8350](#)

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 chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around 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, H1, 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 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 H3 histone family, member A|histone 1, H3a

Pathway

- [Systemic lupus erythematosus](#)