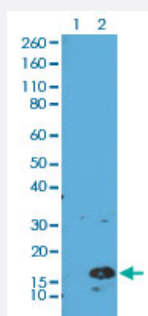


RecomAb™

# Histone H3 (trimethyl K4) monoclonal antibody, clone RM137

Catalog # MAB12833      Size 100 ug

## Applications



### Western Blot

Western blot analysis of Lane 1: recombinant histone H3.3, Lane 2: HeLa cells using Histone H3 (trimethyl K4) monoclonal antibody, clone RM137 (Cat # MAB12833) under 0.5 ug/mL working concentration.

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

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A Peptide dotblot shows Histone H3 (trimethyl K4) monoclonal antibody, clone RM137 (Cat# MAB12833) reacts only to Histone H3 trimethyl-Lysine 4 (K4me3). No cross reactivity with nonmodified Lysine 4 (H3N1-19), monomethylated Lysine 4 (K4me1) or dimethylated Lysine 4 (K4me2).

## Specification

<b>Product Description</b>	Rabbit recombinant monoclonal antibody raised against of human histone H3 (trimethyl K4).
<b>Antibody Species</b>	Rabbit
<b>Immunogen</b>	Original antibody is raised against a synthetic trimethyl peptide corresponding to residues surrounding K4 of human Histone H3.
<b>Sequence</b>	N/A

Specificity	This antibody reacts to histone H3 trimethylated at Lysine 4. No cross reactivity with monomethylated Lysine 4, dimethylated Lysine 4, or other methylations in histone H3.
Form	Liquid
Purification	Protein A affinity purification
Isotype	IgG
Recommend Usage	ELISA (0.1-0.5 ug/mL) Western Blot (0.2-1 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	<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>A Peptide dotblot shows Histone H3 (trimethyl K4) monoclonal antibody, clone RM137 (Cat# MAB12833) reacts only to Histone H3 trimethyl-Lysine 4 (K4me3). No cross reactivity with nonmodified Lysine 4 (H3N1-19), monomethylated Lysine 4 (K4me1) or dimethylated Lysine 4 (K4me2).</p>

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — HIST1H3A

Entrez GeneID	<a href="#">8350</a>
Gene Name	HIST1H3A
Gene Alias	H3/A, H3FA
Gene Description	histone cluster 1, H3a
Omim ID	<a href="#">602810</a>

## 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](#)