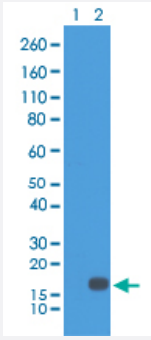
RecomAb™ Sm Size

Histone H3 (dimethyl K18) monoclonal antibody, clone RM168

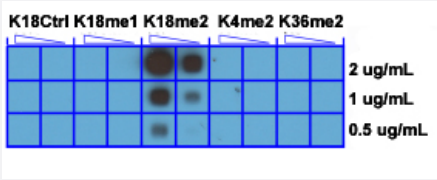
Catalog # RAB09444 Size 25 ug

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 K18) recombinant monoclonal antibody, clone RM168 (Cat # RAB09444) 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) recombinant monoclonal antibody, clone RM168 (Cat # RAB09444) 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).

Specification

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.

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Form	Liquid
Purification	Protein A purification
Isotype	IgG
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.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot

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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

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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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