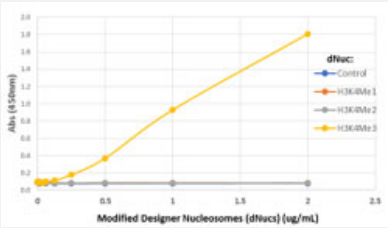
RecomAb™

Histone H3 (trimethyl K4) monoclonal antibody, clone RM340

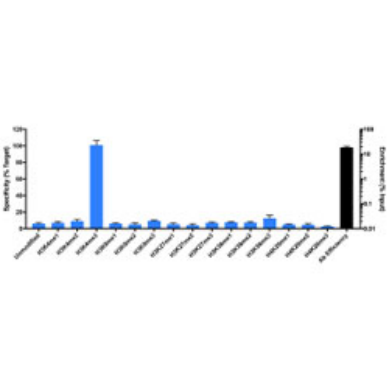
Catalog # MAB21964 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of Designer Nucleosomes (dNucs) (Recombinant Human Nucleosome with H3 K4 Modified).



ChIP

ChIP analysis of HEK-293 chromatin (~1x10^{6}cells). Specificity (left Y-axis; all bars mean ± SEM from six independent ChIP experiments; note <15% crossreactivity outside H3K4me3) was determined by quantitative real-time PCR (qPCR) for the duplicate DNA barcodes corresponding to each modified nucleosome in the ChIP panel (X-axis). Black bar represents antibody efficiency (right Y-axis; log scale) and indicates percentage of the barcoded H3K4me3 nucleosome target immunoprecipitated relative to Input.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human histone H3.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic trimethyl peptide corresponding to residues surroundin g Lys4 of human histone H3.
Reactivity	Human

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Specificity	This antibody reacts to Histone H3 trimethylated at Lysine 4 (K4me3). No cross reactivity with mono methylated Lysine 4 (K4me1), dimethylated Lysine 4 (K4me3), or other methylations in histone H3.
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	ChIP (1 ug/mL-5 ug/mL) ELISA (1 ug/mL-10 ug/mL) Multiplex (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	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay

  ELISA analysis of Designer Nucleosomes (dNucs) (Recombinant Human Nucleosome with H3 K4 Modified).

- ChIP

  ChIP analysis of HEK-293 chromatin (~1x10^{6}cells). Specificity (left Y-axis; all bars mean ± SEM from six independent ChIP experiments; note <15% crossreactivity outside H3K4me3) was determined by quantitative real-time PCR (qPCR) for the duplicate DNA barcodes corresponding to each modified nucleosome in the ChIP panel (X-axis). Black bar represents antibody efficiency (right Y-axis; log scale) and indicates percentage of the barcoded H3K4me3 nucleosome target immunoprecipitated relative to Input.

- Multiplex

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