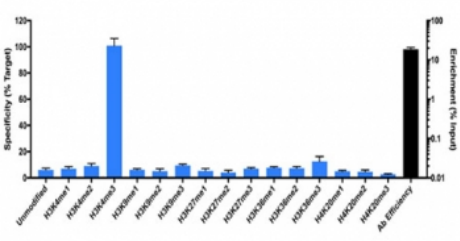
H3K4me3 Antibody / Trimethyl-Histone H3 (Lys4) [clone RM340] (R20363)

Catalog No.	Formulation	Size
R20363-100UG	1 mg/ml in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	100 ug

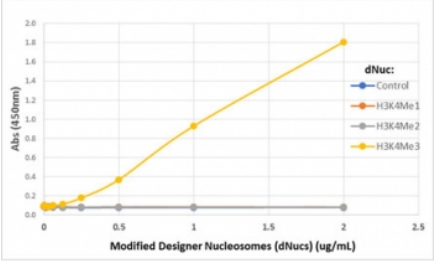
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RM340
Purity	Protein A purified from animal origin-free supernatant
UniProt	P84243
Applications	Chromatin IP : 1ug/ml-5ug/ml ELISA : 1ug/ml-10ug/ml
Limitations	This recombinant H3K4me3 antibody is available for research use only.



SNAP-ChIP (TM) / qPCR using anti-H3K4me3 antibody. Antibody (3 ug at 17 ug/ml) was tested in native ChIP with 3 ug HEK-293 chromatin (~1x10e6 cells). Specificity (left Y-axis; all bars mean Â± SEM from six independent ChIP experiments; note less than 15% cross-reactivity outside H3K4me3) was determined by quantitative real-time PCR (qPCR) for the duplicate DNA barcodes corresponding to each modified nucleosome in the SNAP-ChIP K-MetStat 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.



ELISA of Designer Nucleosomes (dNucs) (Recombinant Human Nucleosome with H3 K4 Modified), using anti-H3K4me3 antibody (10 ug/ml).

Description

This antibody reacts to Histone H3 trimethylated at Lysine 4 (K4me3). No cross reactivity with monomethylated Lysine 4 (K4me1) or dimethylated Lysine 4 (K4me3), or other methylation in histone H3.

Application Notes

The stated application concentrations are suggested starting points. Titration of the recombinant H3K4me3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A trimethyl-peptide corresponding to Trimethyl-Histone H3 (Lys4) was used as the immunogen for the recombinant H3K4me3 antibody.

Storage

Store the recombinant H3K4me3 antibody at -20oC.