

5-Methylcytosine Recombinant Rabbit Monoclonal Antibody (RM231)

Product Details	
Size	50 µg
Species Reactivity	Chemical
Published Species	Chemical
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	RM231
Conjugate	Unconjugated
Immunogen	BSA-conjugated 5-methylcytosine
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2-7.4, with 1% BSA, 50% glycerol
Contains	0.09% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2665309

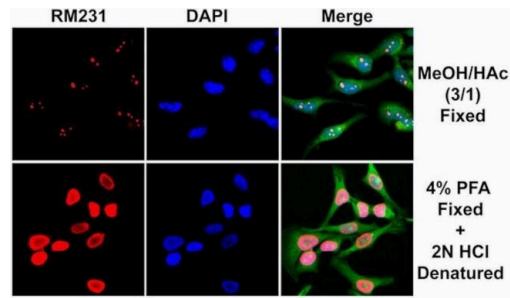
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	0.5-2 µg/mL	1 Publication
Flow Cytometry (Flow)	0.5-2 µg/mL	-
ELISA (ELISA)	0.1-3 µg/mL	-
Immunoprecipitation (IP)	0.2-2 µg/mL	-
Dot blot (DB)	0.5-2 µg/mL	-

Product Specific Information

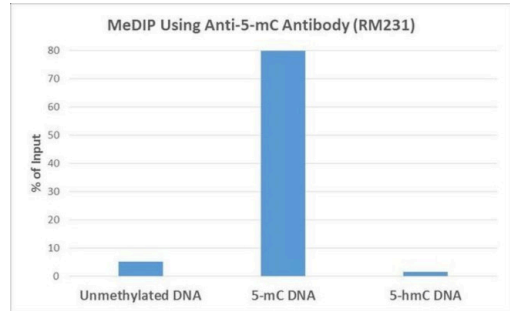
This antibody reacts to 5-methylcytosine in both single-stranded and double-stranded DNA. No cross reactivity with non-methylated cytosine and hydroxymethylcytosine in DNA.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

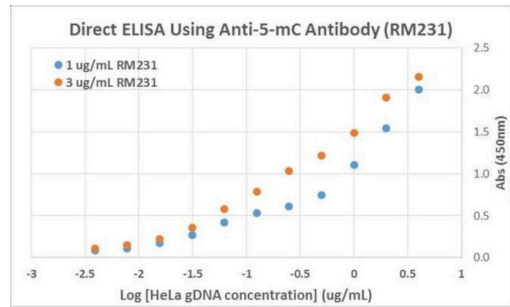
Product Images For 5-Methylcytosine Recombinant Rabbit Monoclonal Antibody (RM231)



5-Methylcytosine Antibody (MA5-24694) in ICC/IF
Immunofluorescent analysis of HeLa cells using 5-Methylcytosine Antibody (Product # MA5-24694) (red). Actin filaments have been labeled with FITC-conjugated phalloidin (green), and nuclei stained with DAPI (blue).



5-Methylcytosine Antibody (MA5-24694) in IP
MeDIP was performed using 5-Methylcytosine Antibody (Product # MA5-24694) at a 2:1 DNA: Ab ratio. 1 ng of unmethylated, 5-Methylcytosine (5-mC) or 5-Hydroxymethylcytosine (5-hmC) DNA standard (897 bp) was spiked in 1 µg of genomic DNA isolated from HeLa cells as the control. Realtime PCR was then performed to determine the capture of DNA standard as in % of input.



5-Methylcytosine Antibody (MA5-24694) in ELISA
Direct ELISA of HeLa cell genomic DNA using 5-Methylcytosine Antibody (Product # MA5-24694). The plate was directly coated with different concentrations of genomic DNA isolated from HeLa cells. 1 µg/mL or 3 µg/mL of 5-Methylcytosine Antibody (Product # MA5-24694) was used as the primary antibody, and a HRP conjugated Anti-Rabbit IgG as the secondary antibody.

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1 Reference

Immunocytochemistry (1)

<p>PloS one</p> <p>The distribution pattern of 5-methylcytosine in rye (Secale L.) chromosomes.</p> <p>"Published figure using 5-Methylcytosine recombinant monoclonal antibody (Product # MA5-24694) in Immunocytochemistry"</p> <p>Authors: Kalinka A,Achrem M</p>	<p>Year</p> <p>2020</p> <p>Species</p> <p>Chemical</p>
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