

## ARG57235 anti-5-methylcytosine / 5-mC antibody [RM231]

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Monoclonal antibody [RM231] recognizes 5-methylcytosine / 5-mC
Tested Reactivity	Other
Tested Application	Dot, ELISA, ICC/IF, MeDIP
Specificity	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.
Host	Rabbit
Clonality	Monoclonal
Clone	RM231
Isotype	IgG
Target Name	5-methylcytosine / 5-mC
Species	Others
Immunogen	BSA-conjugated 5-methylcytosine.
Conjugation	Un-conjugated

### Application Instructions

Application table	Application	Dilution
	Dot	0.5 - 2 µg/ml
	ELISA	0.1 - 1 µg/ml
	ICC/IF	0.5 - 2 µg/ml
	MeDIP	0.2 - 2 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

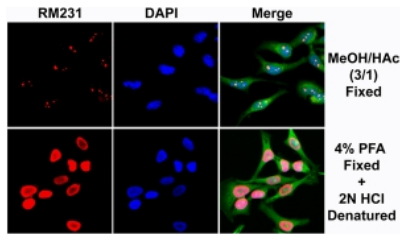
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.09% Sodium azide, 50% Glycerol and 1% BSA.
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol and 1% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

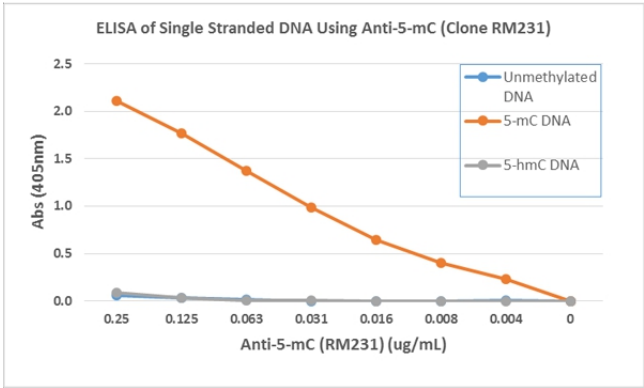
For laboratory research only, not for drug, diagnostic or other use.

Images



ARG57235 anti-5-methylcytosine / 5-mC antibody [RM231] ICC/IF image

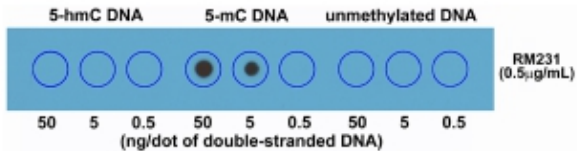
Immunofluorescence: HeLa cells stained with ARG57235 anti-5-methylcytosine / 5-mC antibody [RM231] (red). Actin filaments have been labeled with fluorescein phalloidin (green), and nuclei stained with DAPI (blue).



ARG57235 anti-5-methylcytosine / 5-mC antibody [RM231] ELISA image

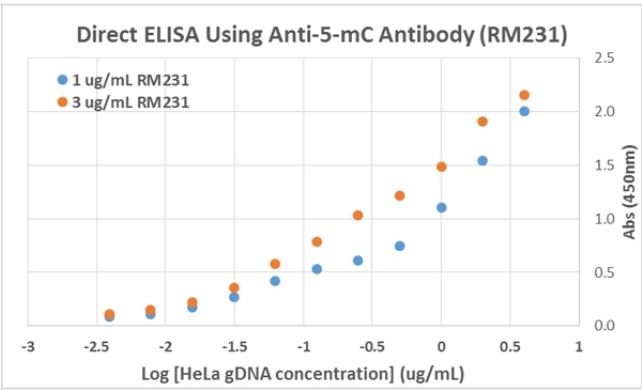
ELISA: Titration curve of ARG57235 anti-5-methylcytosine / 5-mC antibody [RM231]. Antigen: The plate was coated with streptavidin and then biotinylated single stranded unmethylated DNA, 5-Methylcytosine (5-mC) DNA, and 5-Hydroxymethylcytosine (5-hmC) DNA.

Secondary antibody: An alkaline phosphatase conjugated anti-rabbit IgG.



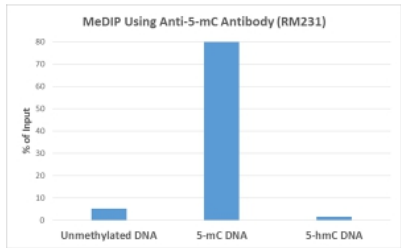
ARG57235 anti-5-methylcytosine / 5-mC antibody [RM231] Dot blot image

Dot blot: Double stranded DNA using ARG57235 anti-5-methylcytosine / 5-mC antibody [RM231]. The membrane was pre-spotted with 50, 5, and 0.5 ng/dot of double stranded 5-Hydroxymethylcytosine (5-hmC) DNA, 5-Methylcytosine (5-mC) DNA, and unmethylated DNA. The pre-spotted membrane was then blotted with ARG57235 anti-5-methylcytosine / 5-mC antibody [RM231].



ARG57235 anti-5-methylcytosine / 5-mC antibody [RM231] ELISA image

Direct ELISA: The plate was directly coated with different concentrations of genomic DNA isolated from HeLa cells. 1  $\mu$ g/ml or 3  $\mu$ g/ml of ARG57235 anti-5-methylcytosine / 5-mC antibody [RM231] was used as the primary antibody, and a HRR-conjugated anti-rabbit IgG as the secondary antibody.



ARG57235 anti-5-methylcytosine / 5-mC antibody [RM231] MeDIP image

MeDIP: ARG57235 anti-5-methylcytosine / 5-mC antibody [RM231] 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  $\mu$ g 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.