

## 5-Hydroxymethylcytosine / 5-hmC antibody [RM236]

## Cat. No. GTX33605

|              |                                       |
|--------------|---------------------------------------|
| Host         | Rabbit                                |
| Clonality    | Monoclonal                            |
| Isotype      | IgG                                   |
| Applications | ICC/IF, IHC-P, FCM, Dot, ELISA, MeDIP |
| Reactivity   | Species independent                   |

References ( 1 )

Package

50 µg

## Applications

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

| Suggested dilution | Recommended dilution |
|--------------------|----------------------|
| ICC/IF             | 0.5 µg/mL - 2 µg/mL  |
| IHC-P              | 0.1 µg/mL - 1 µg/mL  |
| FCM                | 1 µg/mL - 5 µg/mL    |
| Dot                | 0.2 µg/mL - 1 µg/mL  |
| ELISA              | 0.1 µg/mL - 1 µg/mL  |
| MeDIP              | 0.2 µg/mL - 2 µg/mL  |

Not tested in other applications.

## Product Note

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

## Properties

|               |                                                                                                                                                                                                                            |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form          | Liquid                                                                                                                                                                                                                     |
| Buffer        | PBS, 1% BSA, 50% Glycerol                                                                                                                                                                                                  |
| Preservative  | 0.09% Sodium azide                                                                                                                                                                                                         |
| Storage       | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |
| Concentration | Batch dependent (Please refer to the vial label for the specific concentration.)                                                                                                                                           |
| Immunogen     | BSA-conjugated 5-hydroxymethylcytosine.                                                                                                                                                                                    |
| Purification  | Protein A purified<br>From tissue culture supernatant                                                                                                                                                                      |
| Conjugation   | Unconjugated                                                                                                                                                                                                               |



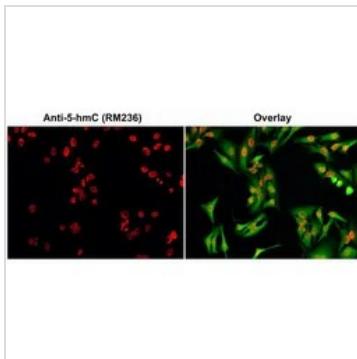
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For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

**Note**

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

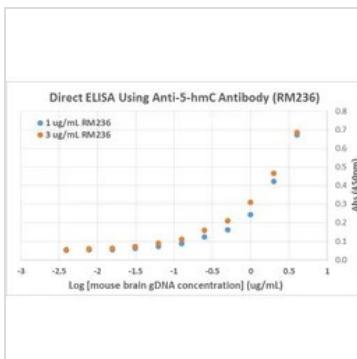
**DATA IMAGES****GTX33605 ICC/IF Image**

ICC/IF analysis of HeLa cells treated with sodium butyrate using GTX33605 5-Hydroxymethylcytosine / 5-hmC antibody [RM236]. HeLa cells were fixed with 4% PFA and permeabilized with methanol (-20°C) before treatment with 2 N HCl for 30 min at 37 °C to denature DNA.

Red : Primary antibody

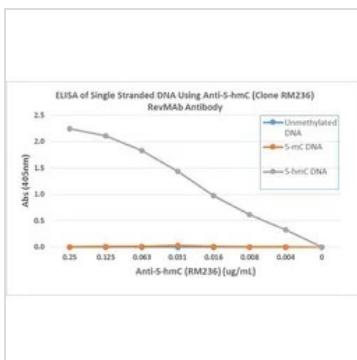
Green : Actin

Dilution : 0.5µg/ml

**GTX33605 ELISA Image**

ELISA analysis of mouse brain genomic DNA using GTX33605 5-Hydroxymethylcytosine / 5-hmC antibody [RM236].

Dilution : 1 ug/mL or 3 ug/mL of RM236 was used as the primary antibody.

**GTX33605 ELISA Image**

ELISA analysis of unmethylated DNA, 5-Methylcytosine (5-mC) DNA, and 5-Hydroxymethylcytosine (5-hmC) DNA using serial diluted GTX33605 5-Hydroxymethylcytosine / 5-hmC antibody [RM236].



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