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Datasheet for ABIN4953286

Recombinant anti-5-Hydroxymethylcytosine antibody

5 Images

Overview

Quantity:	50 µg
Target:	5-Hydroxymethylcytosine (5-hmC)
Reactivity:	Please inquire
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This 5-Hydroxymethylcytosine antibody is un-conjugated
Application:	ELISA, Dot Blot (DB), Hydroxymethylated DNA immunoprecipitation (hmeDIP), Immunocytochemistry (ICC), Immunohistochemistry (IHC)

Product Details

Immunogen:	BSA-conjugated 5-hydroxymethylcytosine was used as the immunogen for this recombinant 5hmC antibody.
Clone:	RM236
Isotype:	IgG
Characteristics:	This recombinant 5hmC antibody reacts to 5-hydroxymethylcytosine in both single-stranded and double-stranded DNA. No cross reactivity with non-methylated cytosine and methylcytosine in DNA.
Purification:	Protein A purified from animal origin-free supernatant

Target Details

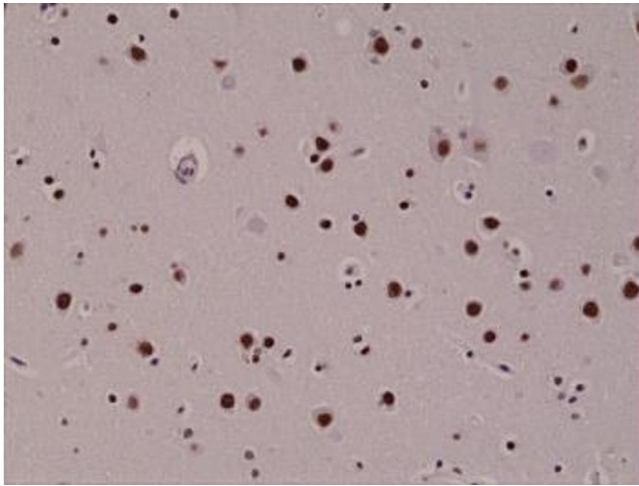
Target:	5-Hydroxymethylcytosine (5-hmC)
Alternative Name:	5-Hydroxymethylcytosine (5hmC) (5-hmC Products)
Target Type:	Chemical
Background:	This recombinant 5hmC antibody reacts to 5-hydroxymethylcytosine in both single-stranded and double-stranded DNA. No cross reactivity with non-methylated cytosine and methylcytosine in DNA.

Application Details

Application Notes:	<p>The stated application concentrations are suggested starting points. Titration of the recombinant 5hmC antibody may be required due to differences in protocols and secondary/substrate sensitivity.</p> <p>1. A pH 6 Citrate buffer or pH 9 Tris/EDTA buffer HIER step is recommended for testing of FFPE tissue sections.\. Dot Blot: 0.2-1 µg/mL,ELISA: 0.1-1 µg/mL,Immunohistochemistry: 0.1-1 µg/mL (1),Immunocytochemistry: 0.5-2 µg/mL,hMeDIP: 0.2 µg/mL- 2 µg/mL</p>
Restrictions:	For Research Use only

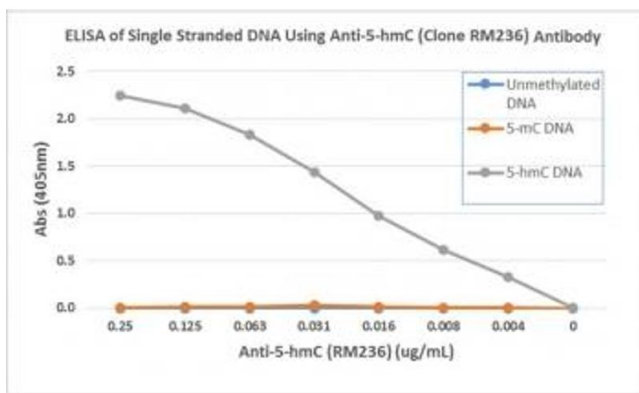
Handling

Buffer:	1 mg/mL in PBS with 50 % glycerol, 1 % BSA and 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store the recombinant 5hmC antibody at -20°C (with glycerol) or aliquot and store at -20°C (without glycerol).



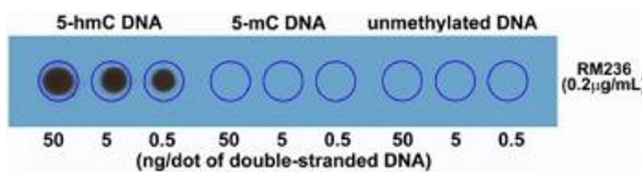
Immunohistochemistry

Image 1. IHC testing of FFPE human brain with recombinant 5hmC antibody.



ELISA

Image 2. ELISA of single stranded DNA using recombinant 5hmC antibody. The plate was coated with streptavidin and then biotinylated single stranded unmethylated DNA, 5-Methylcytosine (5mC) DNA, and 5-Hydroxymethylcytosine (5hmC) DNA. A serial dilution of RM236 mAb was used as the primary, and an anti-rabbit IgG AKP secondary.



Dot Blot

Image 3. Dot blot of double stranded DNA using recombinant 5hmC antibody. The membrane was pre-spotted with 50, 5, and 0.5 ng/dot of double stranded 5-Hydroxymethylcytosine (5hmC) DNA, 5-Methylcytosine (5mC) DNA, and unmethylated DNA. The pre-spotted membrane was then blotted with RM236 mAb.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN4953286.