

5-Hydroxymethylcytosine/ 5-hmC Rabbit pAb

Catalog No.: A20140

Basic Information

Observed MW

Refer to figures

Calculated MW

Category

Primary antibody

Applications

ELISA,DB

Cross-Reactivity

Human, Mouse, Rat, Other (Wide Range Predicted)

Background

In mammalian genomes, 5-mC can be enzymatically oxidized to 5-hmC (5-hydroxymethylcytosine). This modification is suggested to be an intermediate between methylation and demethylation of the genome. Occupancy of 5-hmC correlates with inactive or non-productive promoters (PMID: 21925312). 5-hmC pattern is different from 5-methylcytosine (5-mC) in many instances (PMID: 21610077).

Recommended Dilutions

DB 1:500 - 1:2000

Immunogen Information

Gene ID

Swiss Prot

Immunogen

Chemical compounds corresponding to 5-hydroxymethylcytidine / hm5C.

Synonyms

5-hmC; 5hmc; 5-HydroxyMethyl cytidine; hm5c; 5-Hydroxymethylcytosine/ 5-hmC

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

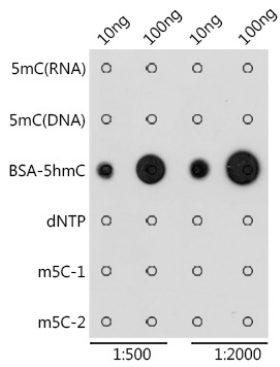
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

Validation Data



Dot-blot analysis of 5-Hydroxymethylcytosine(5-hmC), 5-Methylcytosine (5mC) and unmodified adenosine using 5-Hydroxymethylcytosine/5-hmC antibody (A20140) at 1:500/1:2000 dilution.

m5C 1 -
5'CAGTAACTGGTCCGGTAACTGACTTGCA3'

m5C 2 -
5'CAGTAACTGGTGC/i5MedC/GGTAAGTACTGCA3'