

A20140

Leader in Biomolecular Solutions for Life Science



# 5-Hydroxymethylcytosine/ 5-hmC Rabbit pAb

Catalog No.: A20140

## Basic Information

---

### Observed MW

Refer to figures

### Calculated MW

### Category

Small Molecule-specific 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

---



[www.abclonal.com](http://www.abclonal.com)

## Product Information

---

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

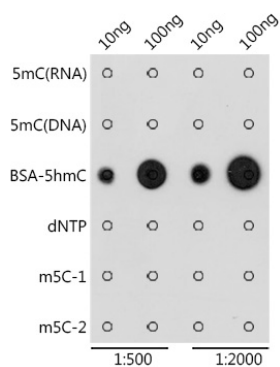
### Storage

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' CAGTAACTGGGTC/i5MedC/GGTAAGTAC TTGCA3'