

5-Methylcytosine (5mC) Rabbit mAb

Catalog No.: A20599

Recombinant

2 Publications

Basic Information

Observed MW

Refer to figures

Calculated MW

Category

Primary antibody

Applications

DB, ELISA

Cross-Reactivity

Species independent

CloneNo number

ARC50801

Background

In the mammalian genome, DNA methylation is an epigenetic mechanism involving the transfer of a methyl group onto the C5 position of the cytosine to form 5-methylcytosine. DNA methylation regulates gene expression by recruiting proteins involved in gene repression or by inhibiting the binding of transcription factor(s) to DNA. During development, the pattern of DNA methylation in the genome changes as a result of a dynamic process involving both de novo DNA methylation and demethylation. As a consequence, differentiated cells develop a stable and unique DNA methylation pattern that regulates tissue-specific gene transcription. Intriguingly, postmitotic neurons still express DNA methyltransferases and components involved in DNA demethylation. Moreover, neuronal activity can modulate their pattern of DNA methylation in response to physiological and environmental stimuli. The precise regulation of DNA methylation is essential for normal cognitive function.

Recommended Dilutions

DB 1:500 - 1:1000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

Swiss Prot

Immunogen

Chemical compounds corresponding to 5-Methylcytosine (5mC).

Synonyms

5mC; 5-Methylcytosine (5mC)

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

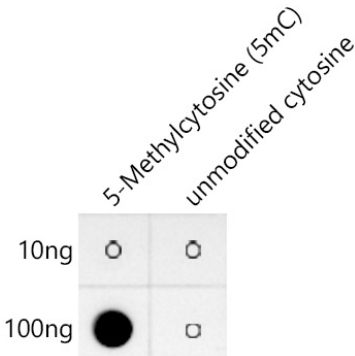
Affinity purification

Storage

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

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Dot-blot analysis of 5-Methylcytosine (5mC) and unmodified cytosine using 5-Methylcytosine (5mC) Rabbit mAb antibody (A20599) at 1:1000 dilution.

5-Methylcytosine (5mC) :
Biotin-5'CGATAACCACTAGT(5mC)3'
unmodified cytosine :
Biotin-5'CGATAACCACTAGTC3'