

5-hmC | 5-hydroxymethylcytosine (monoclonal)

Cat PA01293

Size 100 µg

Host

Mouse

Clonality

Monoclonal

Confirmed reactivity

Human

Immunogen

BSA-conjugated molecule: 5-hydroxymethylcytosine (5-hmC).

Host

Mouse

Clonality

Monoclonal

Purity

Protein G purified.

Format

Liquid

Storage

Store lyophilized/reconstituted at -20°C; for long term storage -80°C is recommended; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application

Dot blot (Dot), ELISA (ELISA), hMeDIP (hydroxymethylated DNA Immunoprecipitation (IP))

Recommended dilution

2 µg/ml (Dot), 1 : 500 (ELISA), 2,5 µg/IP (hMeDIP)

Confirmed reactivity

Human

Predicted reactivity

Mouse, broad species range

Not reactive in

No confirmed exceptions from predicted reactivity are currently known

Additional information

Close structural similarity between 5-mC and 5-hmC makes them very difficult to experimentally distinguish. Therefore affinity-based technology is employed to purify 5-hmC specific antibodies. This antibody is affinity purified and provided in PBS pH 7.4 with 0.05 % sodium azide.

Description

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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5-methylol cytosine is a recently discovered DNA modification resulting from the conversion of 5-methylcytosine to 5-methylol cytosine by the TET oxygenase family. It may have an important role different from 5-methylcytosine (5-mC). The 5-hmC bases have been found in Purkinje neurons, granulosa cells, and embryonic stem cells, and they are present in Purkinje cells at high levels (up to 0.6% of the total nucleotides in Purkinje cells).

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