

# AbFlex 5-methylcytosine antibody (rAb)

Catalog No.: RA9005

## Basic Information

**Molecular weight**

**Category**

Recombinant antibody

**Applications**

DB

**Cross-Reactivity**

Not Species Specific

## Background

AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis Tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. AbFlex 5-methylcytosine (5-mC) antibody was expressed as full-length IgG with mouse immunoglobulin heavy and light chains (IgG2a isotype) in mammalian 293 cells. 5-Methylcytosine (5-Methylcytidine) is a modified base that is found in the DNA of plants and vertebrates. DNA methylation is an epigenetic event in which DNA methyltransferases (DNMTs) catalyze the reaction of a methyl group to the fifth carbon of cytosine in a CpG dinucleotide. This modification helps to control gene expression and is also involved in genomic imprinting, while aberrant DNA methylation is often associated with disease. This antibody is useful for discrimination between the modified base and its normal cytosine counterpart, allowing for gene promoter methylation analysis..

## Recommended Dilutions

**Dot Blot** 1 µg/ml

## Product Information

<b>Source</b>	Mouse
<b>Isotype</b>	IgG2a
<b>Purification</b>	Protein A Chromatography
<b>Storage buffer</b>	Purified IgG in 140 mM Hepes, pH 7.5, 70 mM NaCl, 32 mM NaOAc, 0.035% sodium azide, 30% glycerol. Sodium azide is highly toxic.
<b>Storage Conditions</b>	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.

Note: For in vitro research use only, not for diagnostic or therapeutic use, This product is not a medical device.

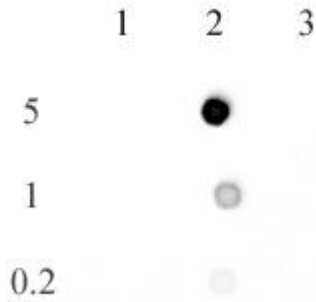
注意:在体外研究使用, 不用于诊断或治疗用途, 本产品不是医疗装置!

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Dot blot of AbFlex 5-methylcytosine antibody (rAb). DNA standards from Cat# 55008 (5, 1 and 0.2 ng as indicated) were spotted onto positively charged nylon membrane and blotted with AbFlex 5-methylcytosine recombinant antibody at a 1 ug/mL. Lane 1: Unmethylated DNA. Lane 2: DNA containing 5-methylcytosine. Lane 3: DNA containing 5-hydroxymethylcytosine.

