

## Anti-5-Methylcytosine Antibody

<b>CATALOG NO:</b>	A1294-50
<b>ALTERNATIVE NAMES:</b>	5-mc, 5mc
<b>AMOUNT:</b>	50 µg
<b>IMMUNOGEN:</b>	Modified ribonucleoside, specific for the presence of a methyl group on carbon 5 of the pyrimidine ring
<b>HOST/ISOTYPE:</b>	Mouse IgG1, Lambda
<b>CLONALITY:</b>	Monoclonal
<b>CLONE:</b>	33D3
<b>SPECIFICITY:</b>	5-mC
<b>SPECIES REACTIVITY:</b>	Human, mouse, rat
<b>PURIFICATION:</b>	Purified IgG fraction prepared by affinity chromatography on protein A
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	Phosphate Buffer 10mM - NaCl 0.15M - pH 7,4
<b>STORAGE CONDITIONS:</b>	Shipped at 4°C short term (< 1 month). For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles
<b>DESCRIPTION:</b>	5-methylcytosine (5-mC) is a modified base present in nucleic acids of plants and vertebrates. DNA methylation is a post-replicative process involved in the establishment of genomic imprinting, in the control of gene expression and of differentiation. Carcinogenesis is associated with alterations of the DNA methylation pattern: a global hypomethylation is often detected in tumor tissues when compared to their normal counterpart. Simultaneously local hypermethylation sites are observed
<b>APPLICATION:</b>	WB; 1:250 ELISA: 1:10000 MeDIP/ChIP: 1-2 µg per IP IF: 1:500 IHC Perform heat mediated antigen retrieval before commencing with IHC staining protocol ICC; 0.5-5 µg/ml FC; 10µl of working dilution to label 10 x 10 <sup>6</sup> cells in 100µl

**Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.**

### RELATED PRODUCTS:

- Anti-5-Hydroxymethylcytosine Antibody (Cat. No. A1295-50)
- Anti-S1P1 Antibody (Cat. No. A1296-50)
- Anti-GRA2 Antibody (Cat. No. A1298-50)
- Anti-GRA5 Antibody (Cat. No. A1299-50)

**FOR RESEARCH USE ONLY! Not to be used on humans.**