

Anti-5-Methylcytosine Antibody

CATALOG NO:	A1294-50
ALTERNATIVE NAMES:	5-mc, 5mc
AMOUNT:	50 µg
IMMUNOGEN:	Modified ribonucleoside, specific for the presence of a methyl group on carbon 5 of the pyrimidine ring
HOST/ISOTYPE:	Mouse IgG1, Lambda
CLONALITY:	Monoclonal
CLONE:	33D3
SPECIFICITY:	5-mC
SPECIES REACTIVITY:	Human, mouse, rat
PURIFICATION:	Purified IgG fraction prepared by affinity chromatography on protein A
FORM:	Liquid
FORMULATION:	Phosphate Buffer 10mM - NaCl 0.15M - pH 7,4
STORAGE CONDITIONS:	Shipped at 4°C short term (< 1 month). For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles
DESCRIPTION:	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
APPLICATION:	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 ⁶ 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.