



Anti-5-Methylcytosine polyclonal antibody (CABT-B354)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody is specific for 5-Methyl Cytosine. It was tested using immunoprecipitation against 5-Methyl Cytosine and bromodeoxyuridine (BrdU) or-control (no antigen).
Target	5-Methylcytosine
Immunogen	Chemical-Small Molecule conjugated to KLH.
Isotype	IgG
Source/Host	Sheep
Species Reactivity	Mouse, Rat, Zebrafish
Purification	Protein-purified
Conjugate	Unconjugated
Applications	Dot, FACS, ICC/IF, IHC, IHC-Fr, IP, WB
Cellular Localization	Nucleus
Concentration	1.9 mg/ml (Please refer to the vial label for the specific concentration)
Size	250 µg
Buffer	0.15M PBS, pH7.5
Preservative	None
Storage	Aliquot and store at -20°C long term. Avoid repeated freeze-thaw cycles

BACKGROUND

Introduction	Methylation of DNA cytosine bases plays important roles in the regulation of gene transcription. It has been estimated that 60 to 90% of the cytosines in CpG dinucleotides are methylated. An increase in methyl-CpG correlates with transcriptional silencing for the whole chromosome especially in developmentally regulated genes. Methylation is believed to lead to transcriptional silencing by multiple mechanisms including alteration of transcription factor binding to promoters and alteration in chromatin structure.
Keywords	5mC;5-MeC;5-Me;5Me;5MeC;m5C;methyl CpG;5Methyl Cytosine;5 Methyl Cytosine;5 Me;5 MeC

GENE INFORMATION

Synonyms	5mC; 5-MeC; 5-Me; 5Me; 5MeC; m5C; methyl CpG; 5Methyl Cytosine; 5 Methyl Cytosine; 5 Me; 5 MeC
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