



## Anti-5mC

**Catalogue no:** 700005

**Applications:** ChIP

**Concentration:** 2mg/ml

**Size:** 50ul

**Specificity:** Human, mouse

**Source:** Mouse

**Type:** Monoclonal

**Purification:** Protein G (affinity purified)

**Storage:** -20°C (Avoid multiple free/thaw cycles as this may denature the antibody)

### Background:

5mC (5-Methylcytosine) is a region of DNA that has been epigenetically modified through the addition of a methyl group at the 5<sup>th</sup> carbon position of cytosine. DNA methylation is a repressive histone modification that is associated with switching off gene expression. This methylation generally occurs at CpG islands and is also associated with genomic imprinting. Aberrant DNA methylation is linked to disease including many cancers.

### Immunogen:

Raised against 5-methylcytosine (5mC) in DNA.

### Buffer:

Purified antibody (from supernatant) containing PBS + 0.1% sodium azide.

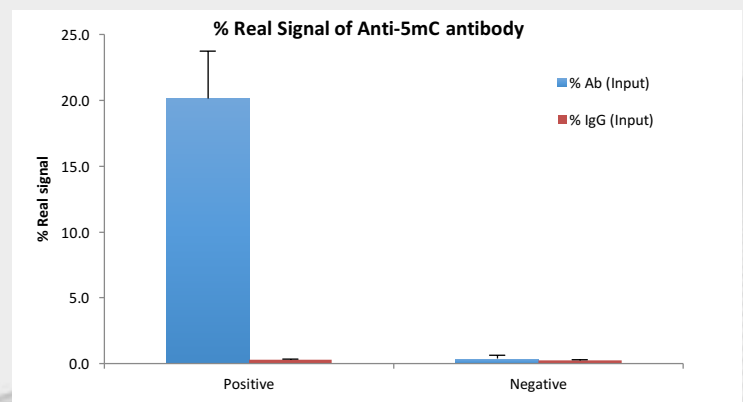
### Applications:

Application	Suggested Dilution	Figure
MeDIP	1:4 (gDNA: antibody)	1

Please note: Optimal antibody dilutions should be determined by the user. These volumes are stated as guidelines only.

### Fig 1. Anti 5mC MeDIP

Methylated DNA Immunoprecipitation (MeDIP) assays were performed with 500ng of genomic DNA from Hec50 cells and 2µg of Anti-5mC antibody. qPCR was used to analyse the enrichment of 5mC onto the positive gene target locus.



## Advancements in Epigenetics

\*This product is for research use only. There is a possibility that results may vary between antibody lots.