

PRODUCT NAME		
5-mC monoclonal antibody cl. b		
Cat. No. MAB-006-100 (also MAb-5MECYT-100) MAB-006-500 (also MAb-5MECYT-500)	Type: Monoclonal MeDIP-grade IgG1	Size: 100 µg/ 100 µl 500 µg/ 500 µl
Lot #: DA-0018	Source: Mouse	Concentration: 1 µg/µl

Description: Monoclonal antibody raised in mouse against 5-mC (5-methylcytosine) conjugated to ovalbumine.

Specificity: Human and mouse: positive
Other species: tested in plants

Applications	Suggested dilution	References
MeDIP	1-5 µg per IP	Fig1
ELISA	0.1- 0.3 µg/ml	
Dot blotting	1-2 µg/ml	
Immunofluorescence	1:100	
Flow cytometry	1-2 µg/ml	

Purity: Protein A purified monoclonal antibody in PBS.

Storage: Store in small aliquots at -80°C. Avoid multiple freeze-taw cycles.

Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Last data sheet update: February 18, 2010

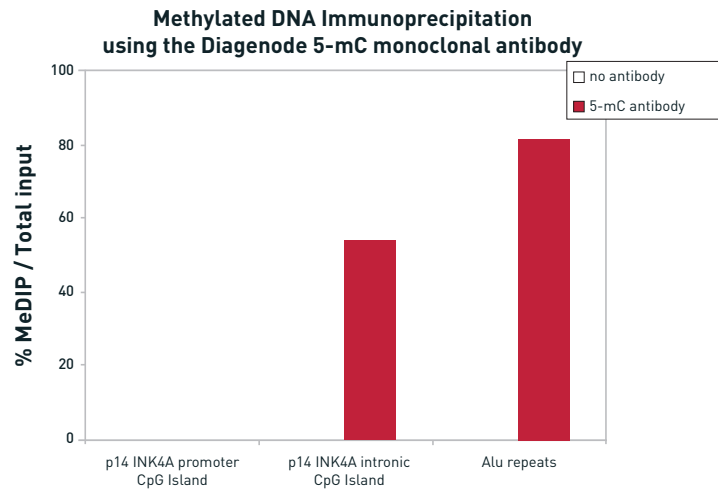


Figure 1
Methylated DNA immunoprecipitation (MeDIP) results obtained with the Diagenode monoclonal antibody directed against 5-methylcytosine

MeDIP assay was performed using fragmented genomic DNA from MCF7 breast cancer cells, the Diagenode monoclonal antibody against 5-methylcytosine and optimized PCR primer sets for qPCR of the indicated regions. One μg of antibody was used per IP experiment. As negative IP control, the same assay was performed without antibody.

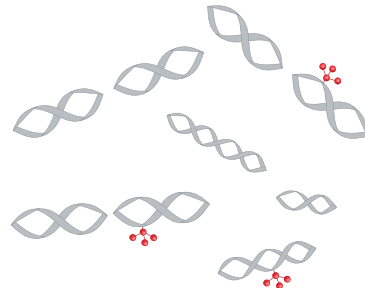
Figure 1 shows the recovery (expressed as a % of the input DNA) of the hypermethylated p14 INK4A intronic CpG island and Alu repeats, and of the non-methylated promoter-CpG island of the p14 INK4A (red bars). The white bars, which represent the negative control, show that the background is extremely low.

Magnetic MeDIP kit.

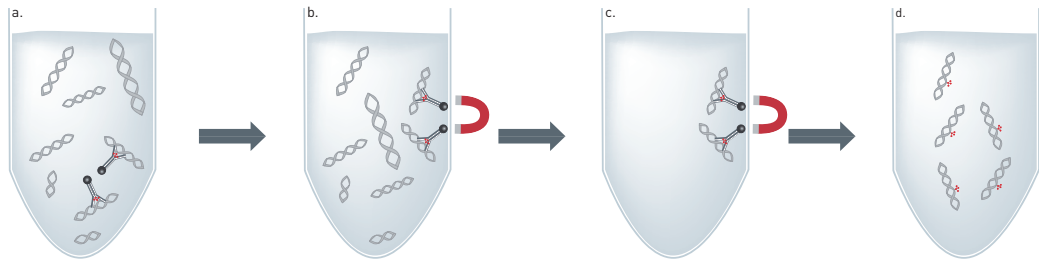
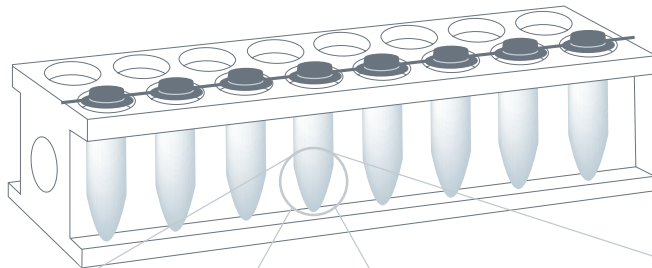
1. Cell collection and lysis



2. DNA Extraction and Shearing using Bioruptor®



3. Immunoprecipitation, washes and DNA isolation



- a. Add magnetic beads coated with antibody of interest
- b. Magnetic capture of Antibody - DNA complex
- c. Washes
- d. DNA isolation before qPCR

Figure 2
Methylated DNA immunoprecipitation (MeDIP) method

Related products

Antibodies	Cat. No.	Format
Auto MeDIP kit x16	AF-Auto01-0016	16 rxns
Auto MeDIP kit x100	AF-Auto01-0100	100 rxns
MagMeDIP kit x10	mc-magme-A10	10 rxns
MagMeDIP kit x48	mc-magme-A48	48 rxns
MeDIP kit x10	mc-green-003	10 rxns