Methylated DNA Immunoprecipitation (MeDIP) Kit - DNA ab117133

Overview

Product name: Methylated DNA Immunoprecipitation (MeDIP) Kit - DNA
Assay time: 3h 00m
Species reactivity: Reacts with: Mouse, Human
Predicted to work with: Rat, a wide range of other species

Product overview

DNA methylation is a covalent modification of the cytosine ring at the 5' position of a CpG dinucleotide which leads to epigenetic inactivation of genes when found in 5'-CpG-3'dinucleotides within promoters or in the first exon of genes. It has been demonstrated that DNA methylation plays an important role in the regulation of gene expression, tumorigenesis, and other genetic and epigenetic diseases, and that alterations in DNA methylation patterns are associated with cancer.

Methylated DNA Immunoprecipitation (MeDIP) Kit - DNA (ab117133) enables the user to enrich methylated DNA by using an antibody specific to methyl cytosine (5-mC) to immunoprecipitate methylated genomic DNA (MeDIP). The enriched methylated fractions can then be used in various downstream applications including qualitative and quantitative PCR, as well as southern blot and DNA microarray.

Notes

NOTE: the size of this kit is based on number of TESTS not SAMPLES. A test simply refers to a single assay well. If you are not sure which size is most suitable for you, contact our Scientific Support Team.

Properties

Storage instructions: Store at +4°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>24 tests</th>
<th>48 tests</th>
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<tbody>
<tr>
<td>8-Well Assay Strips (with Frame)</td>
<td>3 units</td>
<td>6 units</td>
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<tr>
<td>8-Well Strip Caps</td>
<td>3 units</td>
<td>6 units</td>
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<tr>
<td>Anti-5-Methylcytosine (1 mg/mL)</td>
<td>1 x 25µl</td>
<td>1 x 50µl</td>
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<tr>
<td>Antibody Buffer</td>
<td>1 x 8ml</td>
<td>1 x 16ml</td>
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MeDIP was performed using 1μg of DNA with ab117133. Real-time PCR was carried out with MeDIP DNAs and the frequency of DNA methylation of immunoprecipitated DNA vs input DNA was calculated.
Captured methylated DNA was used for analyzing methylation level of GAPDH and MLH1 promoter with the use of primers and probes specific to GAPDH and MLH1 promoters, respectively.

For enrichment of methylated DNA using ab117133, DNA (0.5 ug) isolated from MCF-7 cells was added into the microwell. Methylated DNA was captured by 5-mC antibody prebound to the microwells.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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