Histone Extraction Kit ab113476

Overview

Product name: Histone Extraction Kit
Sample type: Tissue, Adherent cells, Suspension cells
Assay time: 1h 00m
Product overview: Histone Extraction Kit (ab113476) is suitable for a quick isolation of total histone extracts from cells and tissue samples from mammals and other species.

The amount of starting material can be as low as $10^5$ cells or 1 mg of tissue. For best results, the cell number should be $>10^6$ cells or the tissue amount should be $>10$ mg.

A total of 100 standard extractions (using $10^7$ cells or 100 mg of tissue per extraction) can be performed with this kit. Yield of the total histone proteins can be up to 0.4 mg per $10^7$ cells or per 100 mg of tissue. The yield may vary depending on the cell or tissue type.

Notes

Histone purification is most often performed before the analysis of the global levels within a sample of post-translational histone modifications in western blot.

Chromatin immunoprecipitation (ChIP) is the most common technique used for the analysis of histone modifications at specific sites within the genome. Use a chromatin extraction kit instead of a histone purification kit for the preparation of samples for ChIP.

Properties

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

<table>
<thead>
<tr>
<th>Components</th>
<th>100 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>10X Pre-Lysis Buffer</td>
<td>1 x 10ml</td>
</tr>
<tr>
<td>Balance Buffer</td>
<td>1 x 8ml</td>
</tr>
<tr>
<td>DTT Solution</td>
<td>1 x 20µl</td>
</tr>
<tr>
<td>Lysis Buffer</td>
<td>1 x 20ml</td>
</tr>
</tbody>
</table>
The differences in H3 acetylation level in fetal livers (female fetuses aged 19 dpc) from F1, F2, and F3 generations, measured with ab113476. Histones were prepared using ab115124. Asterisk indicates a significant difference between the respective C and R groups: ** P < 0.01; NS not significant. Data presented as the means ± SE (n = 6 per group).

SDS-PAGE Analysis of samples prepared using Histone extraction Kit.

Histones were purified from mouse liver cells using ab113476. Each lane was loaded with 15μg of purified histone.

Image courtesy of Kevin Dalgaard, MPI for Immunobiology & Epigenetics, Freiburg, DE
Histone extracts were prepared from MCF-7 cells using the ab113476 and acetyl histone H3-K9 was quantified.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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