Nuclear Extraction Kit ab113474

Product Overview

Nuclear Extraction Kit (ab113474) provides a simple and selective method along with all necessary reagents for nuclear protein extraction / nuclear protein fractionation in just 1 hour. The extracts can then be used in western blotting, protein-DNA binding assays, nuclear enzyme assays or any other procedures requiring optimized nuclear proteins. The protocol is fast and easy-to-use, and isolates very abundant yields of nuclear extract from mammalian cells or tissue samples.

Not sure if this is the right product for you? Check out our EpiSeeker Sample Preparation Guide for help.

Compared to other kits that use conventional nuclear extraction / nuclear fractionation methods, the buffers included in ab113474 contain much lower amounts of salts (80% less than conventional kits) and no SDS, which allows much better retention of enzyme activity in the nuclear extracts.

Properties

Storage instructions

Store at +4°C. Please refer to protocols.

Components

<table>
<thead>
<tr>
<th>Components</th>
<th>100 tests</th>
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<tbody>
<tr>
<td>1000X Protease Inhibitor Cocktail</td>
<td>1 x 110µl</td>
</tr>
<tr>
<td>10X Pre-Extraction Buffer</td>
<td>1 x 10ml</td>
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<tr>
<td>DTT Solution (1000X)</td>
<td>1 x 110µl</td>
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<tr>
<td>ENE2 (Extraction Buffer)</td>
<td>1 x 10ml</td>
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Effect of two drugs referred to as Cilo (50 and 100 mg/kg; Cilo50 and Cilo100), and Pio (3 and 10 mg/kg; Pio3 and Pio10), and their combination (Cilo50 and Pio3) on the PPAR-γ transcription activity in rats subjected to ischemia (45 min)/reperfusion (24 hrs).

Drugs were administered orally for 14 days then subjected to ischemia/reperfusion. Values are expressed as mean ± S.E.M (n = 6). Data are compared with sham operated control (#), I/R control (○), Cilo50 (●), Pio3 (●), and combination (§) pretreated groups (one-way ANOVA followed by Tukey Multiple Comparison Test) at P<0.05.

B16F10 cells were treated with 30 µM of DMPB for the indicated time periods. Cytoplasmic and nuclear fractions were isolated and analyzed by Western blotting.

Nuclear extracts were prepared from MCF-7 cells and the activity of HDACs were measured using different amounts of the extract. The result shown in the figure demonstrates the ab113474's high specificity.
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