Apoptosis DNA Ladder Assay Kit ab66090

Overview

Product name: Apoptosis DNA Ladder Assay Kit
Sample type: Adherent cells, Suspension cells
Assay type: Direct
Assay time: 1h 30m

Product overview:
Apoptosis DNA Ladder Assay Kit (ab66090) provides an easy and sensitive solution for detecting DNA fragmentation in apoptotic cells. It can isolate small fragmented DNA from cells in only 90 minutes. No DNA extraction or additional columns required.

Apoptosis DNA ladder assay protocol summary:
- pellet cells by spinning
- wash cells with PBS and spinning
- lyse cells with TE lysis buffer and pipetting
- add enzyme A solution and incubate for 10 min
- add enzyme B solution and incubate for 30 min
- add ammonium acetate solution, isopropanol and freeze for 10 min
- spin to precipitate DNA
- wash pellet with 70% ethanol, air-dry and dissolve in DNA suspension buffer
- run on agarose gel and visualize with DNA staining dye

Notes:
This product is manufactured by BioVision, an Abcam company and was previously called K120 Quick Apoptotic DNA Ladder Detection Kit. K120-50 is the same size as the 50 test size of ab66090.

For more apoptosis assays, review the apoptosis assay and apoptosis marker guide.

Properties

Storage instructions: Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>50 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Acetate Solution</td>
<td>1 x 250µl</td>
</tr>
<tr>
<td>DNA Suspension Buffer</td>
<td>1 x 1.5ml</td>
</tr>
</tbody>
</table>
Relevance

Internucleosomal DNA fragmentation is a hallmark of apoptosis in mammalian cells.

Functional assays: Apoptotic DNA Ladder Detection Kit (ab66090)

Apoptosis was induced in 10e6 Jurkat cells by treatment with 10 μM Camptothecin (CPT) (ab120115) for 4 hours (2, 5) or 2 μM CPT for 24 hours (3, 6) whilst control cells were kept without treatment (1, 4). DNA was extracted and resuspended in 60 uL resuspension buffer. 10 uL (1-3) or 40 uL (4-6) were loaded onto the agarose gel.

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<tr>
<td>Enzyme A Solution</td>
<td>1 x 250µl</td>
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<tr>
<td>Enzyme B (Lyophilized)</td>
<td>1 vial</td>
</tr>
<tr>
<td>TE Lysis Buffer</td>
<td>1 x 1.8ml</td>
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Components: 50 tests

Enzyme A Solution (1 x 250µl)

Enzyme B (Lyophilized) (1 vial)

TE Lysis Buffer (1 x 1.8ml)