

## Product datasheet

# HeLa DNA Damage Whole Cell Lysate Set: UV Treated and Untreated Control ab157396

[3 Images](#)

### Overview

<b>Product name</b>	HeLa DNA Damage Whole Cell Lysate Set: UV Treated and Untreated Control
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Product overview</b>	<p>UV light is a common source of DNA damage, and can lead to skin cancer and premature aging. Exposure to UV-B and UV-C light leads to the formation of pyrimidine dimers, and to a lesser extent, purine dimers and pyrimidine photophosphates. These dimerized DNA bases are typically removed by the nucleotide excision repair pathway. Failure to repair the damage can induce apoptosis by blocking DNA replication and transcription.</p> <p>The UV-treated HeLa lysate is designed for use as a western blot positive control when studying UV-induced DNA damage and/or apoptosis. Cells were treated with UV-C light for 1 minute, then cultured for 4 hours before collecting for lysates. Untreated cells were grown under standard cell culture conditions for HeLa cells.</p> <p>Samples are provided solubilized in an SDS-PAGE loading buffer, supplemented with reducing agent. This sample is ready for SDS-electrophoresis and acts as a positive control in Western blotting applications.</p> <p>Concentration: HeLa UV-treated lysate, 200 µg at 2.0 mg/mL HeLa untreated lysate, 200 µg at 2.0 mg/mL</p>
<b>Tested applications</b>	<b>Suitable for:</b> WB

### Properties

**Storage instructions** Store at -80°C. Please refer to protocols.

Components	2 units
Control for UV-Treated HeLa Lysate	1 x 200µg
UV-Treated HeLa Lysate	1 x 200µg

## Applications

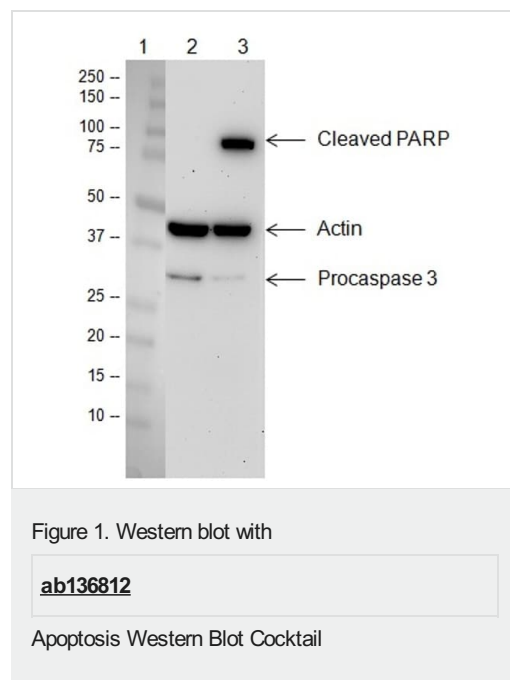
### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab157396 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration.

## Images



Lane 1: MW marker

Lane 2: Untreated HeLa lysate (ab157396)

Lane 3: UV-treated HeLa lysate (ab157396).

All lysates at 20 µg per lane.

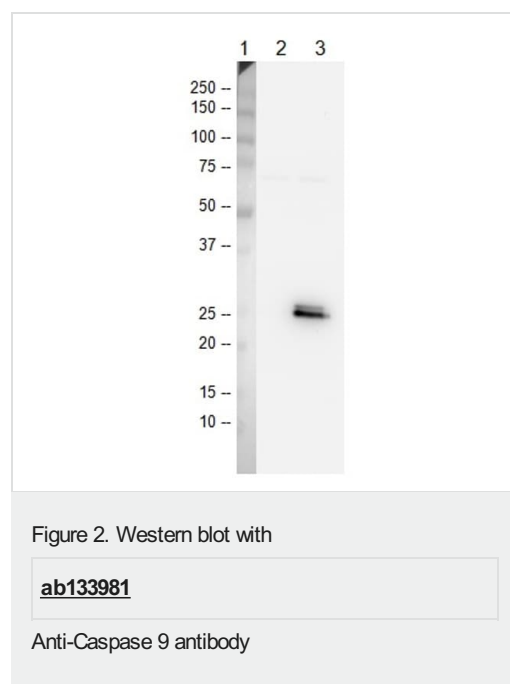
Primary antibodies (all lanes): **ab136812** Apoptosis Western Blot Cocktail (pro/p17-caspase 3, cleaved-PARP, muscle actin) 1:250 dilution.

Secondary antibodies (all lanes): Goat polyclonal to Mouse IgG - HRP at 1:5000 dilution and Goat polyclonal to Rabbit IgG - HRP at 1:5000 dilution.

Developed using the ECL method.

Predicted band sizes: 89, 42, 32, 17 kDa

Observed band sizes: 89, 42, 32 kDa



Lane 1: MW marker

Lane 2: Untreated HeLa lysate (ab157396)

Lane 3: UV-treated HeLa lysate (ab157396)

All lysates at 20 µg per lane.

Primary antibody (all lanes): **ab133981** Anti-Caspase 9 antibody at 2 µg/mL.

Secondary antibodies (all lanes): Goat polyclonal to Mouse IgG - HRP at 1:5000 dilution.

Developed using the ECL method.

Predicted band size: 35 kDa

Observed band size: 25 kDa

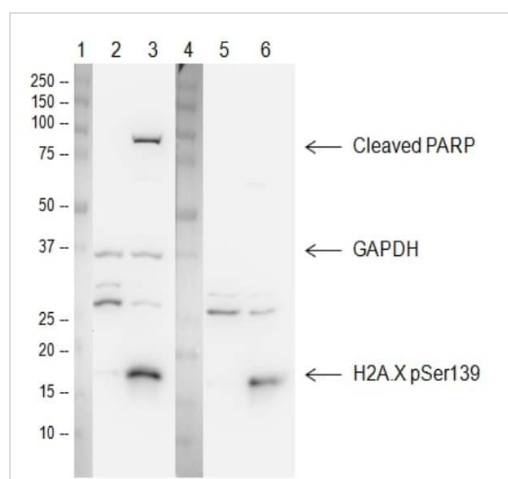


Figure 3. Western blot with

**ab131385**

Apoptosis and DNA Damage Western Blot Cocktail

Lanes 1, 4: MW marker

Lane 2: Untreated HeLa lysate (ab157396)

Lane 3: UV-treated HeLa lysate (ab157396).

All lysates at 20 µg per lane.

Primary antibodies:

Lanes 1-3: **ab131385** Apoptosis and DNA Damage Western Blot

Cocktail (cleaved PARP, GAPDH, H2A.X pSer139) 1:250 dilution

Lanes 4-6: H2A.X pSer139 antibody.

Secondary antibodies (all lanes): Goat polyclonal to Mouse IgG -

HRP at 1:5000 dilution.

Developed using the ECL method.

Predicted band sizes: 15, 36, 89 kDa

Other bands observed (from H2A.X pSer139 antibody, identities unknown): 25, 30 kDa

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

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