

Product datasheet

Human E2F3 knockout HeLa cell lysate ab257415

3 Images

Overview

Product name	Human E2F3 knockout HeLa cell lysate
Product overview	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HeLa
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 19 bp deletion in exon2 and 38 bp deletion in exon2.
Passage number	<20
Knockout validation	Sanger Sequencing
Reconstitution notes	To use as WB control, resuspend the lyophilizate in 50 µL of LDS* Sample Buffer to have a final concentration of 2 mg/ml. For reducing conditions, we recommend a final concentration of 0.1 M DTT.

**Usage of SDS sample buffer is not recommended with these lyophilized lysates.*

Notes

Lysate preparation: Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). *This means that the protein of interest is denatured.* If you require a native form of the protein please use the live cell version - found [here](#). Please refer to our lysis protocol for further details on how our lysates are prepared.

User storage instructions: Lyophilizate may be stored at 4°C. After reconstitution, store at -20°C for short-term storage or -80°C for long-term storage.

Access thousands of knockout cell lysates, generated from commonly used cancer cell lines.

[See here for more information on knockout cell lysates.](#)

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Tested applications

Suitable for: WB, Sanger Sequencing

Properties

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

Components	1 kit
ab262948 - Human E2F3 knockout HeLa cell lysate	1 x 100µg
ab255929 - Human wild-type HeLa cell lysate	1 x 100µg

Cell type epithelial

Disease Adenocarcinoma

Gender Female

STR Analysis Amelogenin X D5S818: 11, 12 D13S317: 12, 13.3 D7S820: 8, 12 D16S539: 9, 10 vWA: 16, 18 TH01: 7 TPOX: 8,12 CSF1PO: 9, 10

Target

Function Transcription activator that binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3' found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication. The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. E2F-3 binds specifically to RB1 protein, in a cell-cycle dependent manner.

Sequence similarities Belongs to the E2F/DP family.

Cellular localization Nucleus.

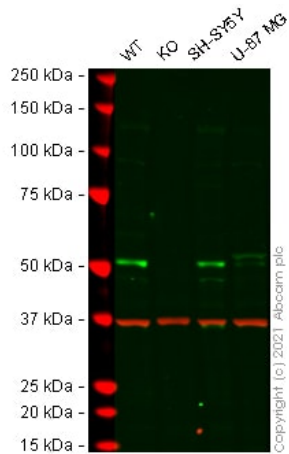
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab257415 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. Predicted molecular weight: 49 kDa.
Sanger Sequencing		Use at an assay dependent concentration.

Images



Western blot - Human E2F3 knockout HeLa cell lysate (ab257415)

Lane 1: Wild-type HeLa cell lysate 20 µg

Lane 2: E2F3 knockout HeLa cell lysate 20 µg

Lane 3: SH-SY5Y cell lysate 20 µg

Lane 4: U-87 MG cell lysate 20 µg

False colour image of Western blot: Anti-E2F3 antibody staining at 1/500 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, [ab152126](#) was shown to bind specifically to E2F3. A band was observed at 49 kDa in wild-type HeLa cell lysates with no signal observed at this size in E2F3 knockout cell line [ab265362](#) (knockout cell lysate ab257415). To generate this image, wild-type and E2F3 knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.

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Mut  TCAG-----AAGAGCTGCACTACGAAG
      |||||
WT   TCAGTACCTCTCAGATGGTTAAAAACCCCAAGGGCAAAGGAAGAGCTGCACTACGAAG
  
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Sanger Sequencing - Human E2F3 knockout HeLa cell lysate (ab257415)

Allele-1: 38 bp deletion in exon2

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Mut  TCAG-----AAACCCCAAGGGCAAAGGAAGAGCTGCACTACGAAG
      |||||
WT   TCAGTACCTCTCAGATGGTTAAAAACCCCAAGGGCAAAGGAAGAGCTGCACTACGAAG
  
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Sanger Sequencing - Human E2F3 knockout HeLa cell lysate (ab257415)

Allele-2: 19 bp deletion in exon2

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