

## Product datasheet

# Human FHL2 knockout HeLa cell lysate ab257441

4 Images

### Overview

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<b>Product name</b>	Human FHL2 knockout HeLa cell lysate
<b>Product overview</b>	Knockout cell lysate achieved by CRISPR/Cas9.
<b>Parental Cell Line</b>	HeLa
<b>Organism</b>	Human
<b>Mutation description</b>	Knockout achieved by using CRISPR/Cas9, 1 bp deletion in exon3 and 1 bp insertion in exon3.
<b>Passage number</b>	<20
<b>Knockout validation</b>	Sanger Sequencing, Western Blot (WB)
<b>Reconstitution notes</b>	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.](#)**

Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.

It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

This product is subject to limited use licenses from The Broad Institute, ERS Genomics Limited and Sigma-Aldrich Co. LLC, and is developed with patented technology. For full details of the licenses and patents please refer to our [limited use license](#) and [patent pages](#).

**Tested applications**                      **Suitable for:** WB

## Properties

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

Components	1 kit
ab260990 - Human FHL2 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

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**Function** May function as a molecular transmitter linking various signaling pathways to transcriptional regulation. Negatively regulates the transcriptional repressor E4F1 and may function in cell growth.  
**Tissue specificity** Expressed in skeletal muscle and heart.  
**Sequence similarities** Contains 4 LIM zinc-binding domains.  
**Domain** The third LIM zinc-binding mediates interaction with E4F1.  
**Cellular localization** Cytoplasm. Nucleus.

## Applications

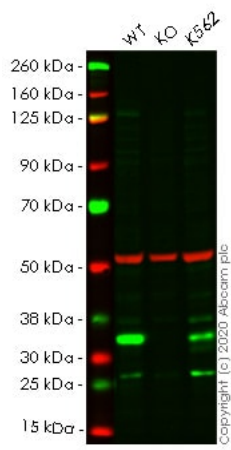
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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab257441 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 32 kDa.

## Images

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Western blot - Human FHL2 knockout HeLa cell lysate (ab257441)

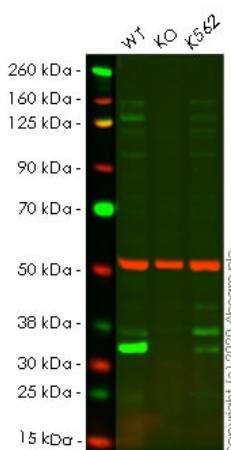
**Lane 1:** Wild-type HeLa cell lysate (20 µg)

**Lane 2:** FHL2 knockout HeLa cell lysate (20 µg)

**Lane 3:** K562 cell lysate (20 µg)

**Lanes 1-3:** Merged signal (red and green). Green - **ab202586** observed at 32 kDa. Red - loading control **ab7291** observed at 50 kDa.

**ab202586** Recombinant Anti-FHL2 antibody [EPR17860-23] was shown to specifically react with FHL2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265475** (knockout cell lysate ab257441) was used. Wild-type and FHL2 knockout samples were subjected to SDS-PAGE. **ab202586** and Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Human FHL2 knockout HeLa cell lysate (ab257441)

**Lane 1:** Wild-type HeLa cell lysate (20 µg)

**Lane 2:** FHL2 knockout HeLa cell lysate (20 µg)

**Lane 3:** K562 cell lysate (20 µg)

**Lanes 1-3:** Merged signal (red and green). Green - **ab202584** observed at 32 kDa. Red - loading control **ab7291** observed at 50 kDa.

**ab202584** Recombinant Anti-FHL2 antibody [EPR17860-20] was shown to specifically react with FHL2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265475** (knockout cell lysate ab257441) was used. Wild-type and FHL2 knockout samples were subjected to SDS-PAGE. **ab202584** and Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed

(**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

```
Mut  AACAGGGTCTCAAAGCACACCACGCAAGTAGGGGGCTCTCCTCCCGCAGGATGTACTTCTT
      |||
WT   AACAGGGTCTCAAAGCACACCACGCAAGTAGGGGGCTCTCCTCCCGCAGGATGTACTTCTT
```

Sanger Sequencing - Human FHL2 knockout HeLa cell lysate (ab257441)

Allele-1: 1 bp insertion in exon3

```
Mut  ACAGGGTCTCAAAGCACACCACGCA-TAGGGGGCTCTCCTCCCGCAGGATGTACTTCTTGC
      |||
WT   ACAGGGTCTCAAAGCACACCACGCAAGTAGGGGGCTCTCCTCCCGCAGGATGTACTTCTTGC
```

Sanger Sequencing - Human FHL2 knockout HeLa cell lysate (ab257441)

Allele-2: 1 bp deletion in exon3

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

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