

## Product datasheet

# Human LOXL2 knockout HeLa cell lysate ab257168

5 Images

### Overview

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<b>Product name</b>	Human LOXL2 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 insertion in exon 4.
<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.](#)**

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

## Properties

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

Components	1 kit
ab260897 - Human LOXL2 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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**Tissue specificity** Expressed in many tissues. Highest expression in reproductive tissues, placenta, uterus and prostate.

**Sequence similarities** Belongs to the lysyl oxidase family.  
Contains 4 SRCR domains.

**Post-translational modifications** The lysine tyrosylquinone cross-link (LTQ) is generated by condensation of the epsilon-amino group of a lysine with a topaquinone produced by oxidation of tyrosine.

**Cellular localization** Secreted > extracellular space.

## Applications

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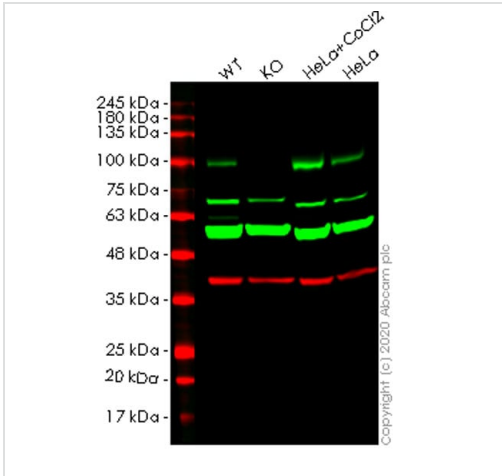
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab257168 in the following tested applications.

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: 87 kDa.

## Images

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Western blot - Human LOXL2 knockout HeLa cell lysate (ab257168)

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

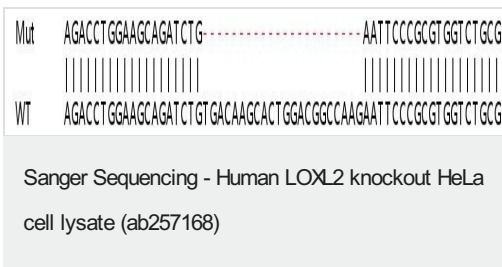
**Lane 2:** LOXL2 knockout HeLa cell lysate (20 µg)

**Lane 3:** HeLa treated with 0.5nM CoCl<sub>2</sub> for 6 hours whole cell lysate (20 µg)

**Lane 4:** Untreated HeLa cell lysate (20 µg)

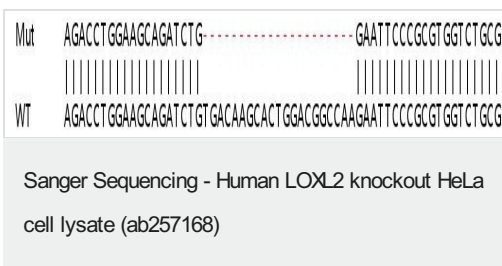
**Lanes 1-4:** Merged signal (red and green). Green - **ab179810** observed at 105 kDa. Red - loading control, **ab8245** observed at 37 kDa.

**ab179810** Anti-LOXL2 antibody [EPR12733] - C-terminal was shown to specifically react with LOXL2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab261804** (knockout cell lysate ab257168) was used. Wild-type and LOXL2 knockout samples were subjected to SDS-PAGE. **ab179810** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 500 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 10000 dilution for 1 hour at room temperature before imaging.



Sanger Sequencing - Human LOXL2 knockout HeLa cell lysate (ab257168)

Allele-1: 1 bp insertion in exon 4



Sanger Sequencing - Human LOXL2 knockout HeLa cell lysate (ab257168)

Allele-2:

```

Mut  AGACCTGGAAGCAGATCTGATGACAAGCACTGGACGGCCAAGAATCCCAGCGTGGTCTGC
      |||
WT   AGACCTGGAAGCAGATCTG TGAACAAGCACTGGACGGCCAAGAATCCCAGCGTGGTCTGC

```

Sanger Sequencing - Human LOXL2 knockout HeLa cell lysate (ab257168)

Allele-3:

```

Mut  AGACCTGGAAGCAGATCTGATGACAAGCACTGGACGGCCAAGAATCCCAGCGTGGTCTG
      |||
WT   AGACCTGGAAGCAGATCTG TGAACAAGCACTGGACGGCCAAGAATCCCAGCGTGGTCTG

```

Sanger Sequencing - Human LOXL2 knockout HeLa cell lysate (ab257168)

Allele-4:

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