

## Product datasheet

# Human CUTC knockout HeLa cell lysate ab258388

3 Images

### Overview

<b>Product name</b>	Human CUTC 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 exon1 and 2 bp deletion in exon1.
<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

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

Components	1 kit
ab262398 - Human CUTC knockout HeLa cell lysate	1 x 100µg
ab255929 - Human wild-type HeLa cell lysate	1 x 100µg

<b>Cell type</b>	epithelial
<b>Disease</b>	Adenocarcinoma
<b>Gender</b>	Female
<b>STR Analysis</b>	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

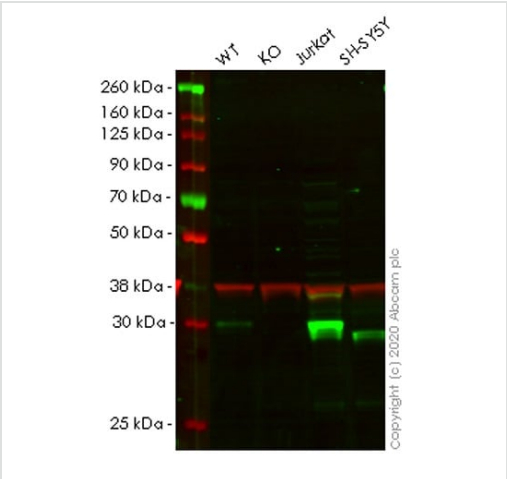
<b>Function</b>	May play a role in copper homeostasis. Can bind one Cu(1+) per subunit.
<b>Tissue specificity</b>	Ubiquitous.
<b>Sequence similarities</b>	Belongs to the CutC family.
<b>Cellular localization</b>	Cytoplasm. Nucleus. The overexpressed protein is detected in the cytoplasm, and depending on the cell line, also in the nucleus.

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab258388 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
<b>WB</b>		Use at an assay dependent concentration. Predicted molecular weight: 29 kDa.

## Images



Western blot - Human CUTC knockout HeLa cell lysate (ab258388)

**Lane 1:** Wild-type HeLa cell lysate (20 ug)  
**Lane 2:** CUTC knockout HeLa cell lysate (20 ug)  
**Lane 3:** Jurkat cell lysate (20 ug)  
**Lane 4:** SH-SY5Y cell lysate (20 ug)

**ab133762** was shown to specifically react with CUTC in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265860** (knockout cell lysate ab258388) was used. Wild-type and CUTC knockout samples were subjected to SDS-PAGE. **ab133762** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) 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.



Sanger Sequencing - Human CUTC knockout HeLa cell lysate (ab258388)

Allele-1: 2 bp deletion in exon1



Sanger Sequencing - Human CUTC knockout HeLa cell lysate (ab258388)

Allele-2: 1 bp deletion in exon1

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