

Product datasheet

Human CUTC knockout HeLa cell lysate ab258388

3 Images

Overview

Product name	Human CUTC 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, 1 bp deletion in exon1 and 2 bp deletion in exon1.
Passage number	<20
Knockout validation	Sanger Sequencing, Western Blot (WB)
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

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

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

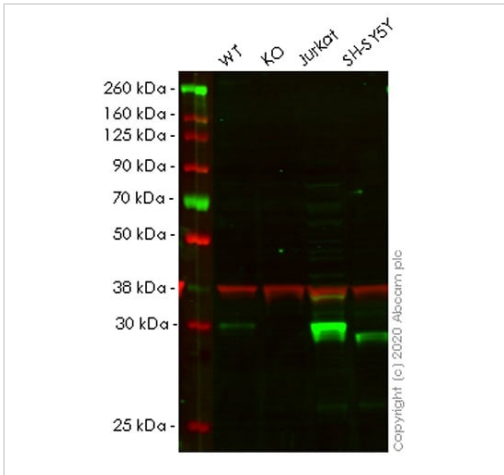
Function May play a role in copper homeostasis. Can bind one Cu(1+) per subunit.
Tissue specificity Ubiquitous.
Sequence similarities Belongs to the CutC family.
Cellular localization Cytoplasm. Nucleus. The overexpressed protein is detected in the cytoplasm, and depending on the cell line, also in the 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
WB		Use at an assay dependent concentration. Predicted molecular weight: 29 kDa.

Images



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

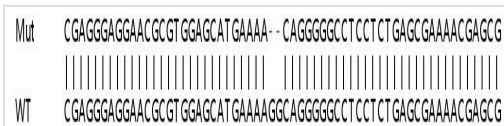
Lane 1: Wild-type HeLa cell lysate (20 ug)

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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