

Human GPX4 knockout HeLa cell lysate ab263935

画像数 4

製品の概要

製品名	Human GPX4 knockout HeLa cell lysate
製品の概要	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HeLa
Organism	Human
Mutation description	Knockout achieved by CRISPR/Cas9; X = 26 bp deletion, 2 bp insertion; Frameshift: 93.31%
Passage number	<20
Knockout validation	Next Generation Sequencing (NGS), 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.*

特記事項

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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アプリケーション

適用あり: WB

製品の特徴

保存方法 Store at -80°C. Please refer to protocols.

内容	1 kit
ab280488 - Human GPX4 knockout HeLa cell lysate	1 x 100µg
ab269597 - Human wild-type HeLa cell lysate	1 x 100µg

Cell type epithelial
Disease Adenocarcinoma
Gender Female

ターゲット情報

機能 Protects cells against membrane lipid peroxidation and cell death. Required for normal sperm development and male fertility. Could play a major role in protecting mammals from the toxicity of ingested lipid hydroperoxides. Essential for embryonic development. Protects from radiation and oxidative damage.

組織特異性 Present primarily in testis.

配列類似性 Belongs to the glutathione peroxidase family.

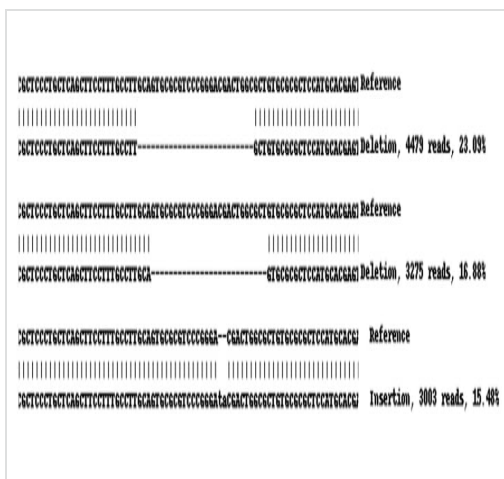
細胞内局在 Mitochondrion. Cytoplasm.

アプリケーション

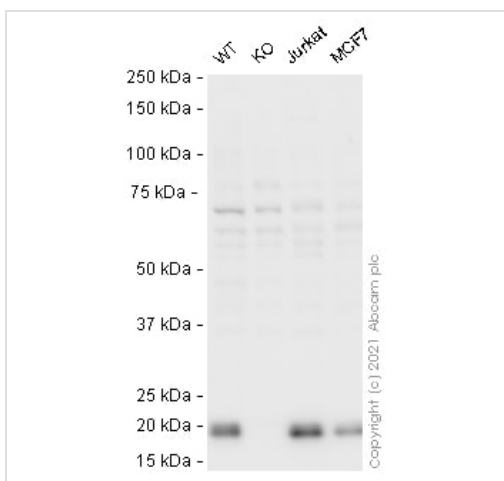
The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab263935の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Predicted molecular weight: 22 kDa.

画像



Knockout achieved by CRISPR/Cas9; X = 26 bp deletion, 2 bp insertion; Frameshift: 93.31%



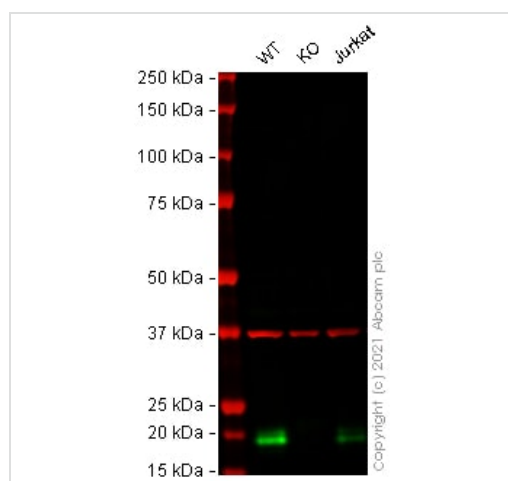
Lanes 1: Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate, 20 ug

Lanes 2: GPX4 knockout HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate, 20 ug

Lanes 3: Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate, 20 ug

Lanes 3: Hep G2 (Human liver hepatocellular carcinoma cell line) whole cell lysate, 20 ug

ab206266 was shown to react with Glutathione Peroxidase 4 (HRP) in wild-type HeLa cells in western blot. Loss of signal was observed when GPX4 knockout cell line **ab262509** (knockout cell lysate ab263935) was used. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with **ab206266** overnight at 4 °C at a 1 in 5000 dilution. Blots were developed with Optiblot ECL reagent (**ab133456**) and imaged.



Western blot - Human GPX4 knockout HeLa cell lysate

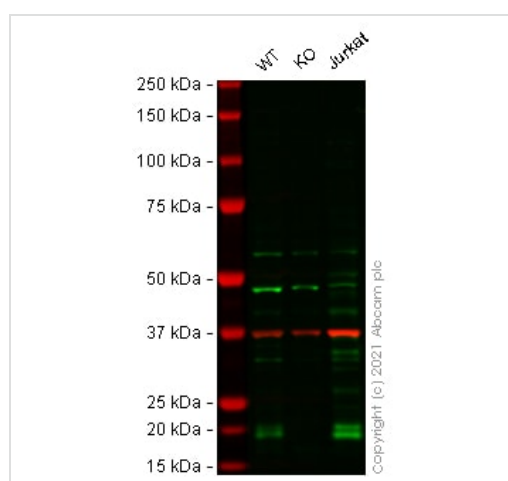
Lanes 1: Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate, 20 ug

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Lanes 3: Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate, 20 ug

Lanes 1 - 3: Merged signal (red and green). Green - [ab125066](#) observed at 20 kDa. Red - loading control [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

[ab125066](#) was shown to react with Glutathione Peroxidase 4 in wild-type HeLa cells in Western blot with loss of signal observed in GPX4 knockout cell line [ab262509](#) (knockout cell lysate ab263935). Wild-type HeLa and GPX4 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with [ab125066](#) and [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Western blot - Human GPX4 knockout HeLa cell lysate

Lanes 1: Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate, 20 ug

Lanes 2: GPX4 knockout HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate, 20 ug

Lanes 3: Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate, 20 ug

Lanes 1 - 3: Merged signal (red and green). Green - [ab41787](#) observed at 20 kDa. Red - loading control [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

[ab41787](#) was shown to react with Glutathione Peroxidase 4 in wild-type HeLa cells in Western blot with loss of signal observed in GPX4 knockout cell line [ab262509](#) (knockout cell lysate ab263935). Wild-type HeLa and GPX4 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with [ab41787](#) and [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at 1 µg/ml and a 1 in 20000 dilution respectively. Blots were incubated

with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.

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