abcam

Product datasheet

# Human ERP29 knockout HEK-293T cell lysate ab257188

3 Images

## Overview

| | |
|---|---|
| **Product name** | Human ERP29 knockout HEK-293T cell lysate |
| **Product overview** | Knockout cell lysate achieved by CRISPR/Cas9. |
| **Parental Cell Line** | HEK293T |
| **Organism** | Human |
| **Mutation description** | Knockout achieved by using CRISPR/Cas9, Homozygous: 1 bp insertion in exon 1. |
| **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.<br>**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.<br><br>**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.<br><br>Access thousands of knockout cell lysates, generated from commonly used cancer cell lines. **See here for more information on knockout cell lysates.**<br><br>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.<br>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.<br><br>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

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

| Components | 1 kit |
|---|---|
| ab260182 - Human ERP29 knockout HEK293T cell lysate | 1 x 100µg |
| ab255553 - Human wild-type HEK293T cell lysate | 1 x 100µg |

**Cell type** epithelial

**STR Analysis** Amelogenin X D5S818: 8, 9 D13S317: 12, 14 D7S820: 11 D16S539: 9, 13 vWA: 16, 19 TH01: 7, 9.3 TPOX: 11 CSF1PO: 11, 12

## Target

**Function** Does not seem to be a disulfide isomerase. Plays an important role in the processing of secretory proteins within the endoplasmic reticulum (ER), possibly by participating in the folding of proteins in the ER.

**Tissue specificity** Ubiquitous. Mostly expressed in secretory tissues.

**Cellular localization** Endoplasmic reticulum lumen. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

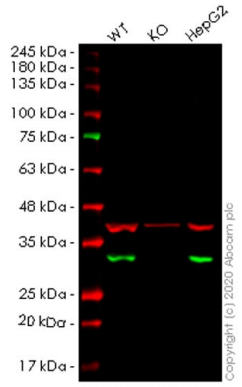
## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab257188 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 ERP29 knockout HEK293T cell lysate (ab257188)

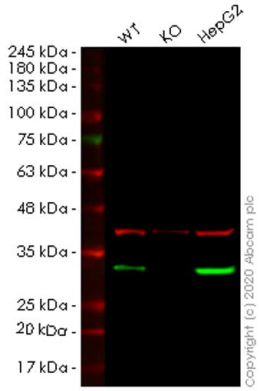
**Lane 1:** Wild-type HEK293T cell lysate (20 µg)

**Lane 2:** ERP29 knockout HEK293T cell lysate (20 µg)

**Lane 3:** HepG2 cell lysate (20 µg)

**Lanes 1-3:** Merged signal (red and green). Green - **ab176573** observed at 29 kDa. Red - loading control, **ab8245** observed at 37 kDa.

**ab176573** Anti-ERp29 antibody [EPR12499(B)] was shown to specifically react with ERp29 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266543** (knockout cell lysate ab257188) was used. Wild-type and ERp29 knockout samples were subjected to SDS-PAGE. **ab176573** 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 10000 dilution for 1 hour at room temperature before imaging.




Western blot - Human ERP29 knockout HEK293T cell lysate (ab257188)

**Lane 1:** Wild-type HEK293T cell lysate (20 µg)

**Lane 2:** ERP29 knockout HEK293T cell lysate (20 µg)

**Lane 3:** HepG2 cell lysate (20 µg)

**Lanes 1-3:** Merged signal (red and green). Green - **ab175193** observed at 29 kDa. Red - loading control, **ab8245** observed at 37 kDa.

**ab175193** Anti-ERp29 antibody [EPR12985] was shown to specifically react with ERp29 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266543** (knockout cell lysate ab257188) was used. Wild-type and ERp29 knockout samples were subjected to SDS-PAGE. **ab175193** 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 ERP29 knockout HEK293T cell lysate (ab257188)

Homozygous: 1 bp insertion in exon 1

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

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