abcam

Product datasheet

Human TMUB1 knockout HeLa cell lysate ab258237

3 Images

Overview

Product name	Human TMUB1 knockout HeLa cell lysate
Product overview	Knockout cell lysate achieved by CRISPR/Cas9. **Knockout profile:** Only the long form of the protein (lHOPS, 27 kDa) has been knocked-out from the parental cell line. The band observed in the KO lysate at 21 kDa is likely to represent a short form of the protein (sHOPS) (doi: 10.4161/cc.27054). We have not investigated the function of the remaining form of the protein.
Parental Cell Line	HeLa
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 1 bp deletion in exon2 and 1 bp insertion in exon2.
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.** 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. 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. 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, Sanger Sequencing

Properties

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

Components	1 kit
ab261184 - Human TMUB1 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 contribute to the regulation of translation during cell-cycle progression. May contribute to the regulation of cell proliferation.

Sequence similarities Contains 1 ubiquitin-like domain.

Cellular localization Membrane. Cytoplasm. Nucleus. Predominantly nuclear during growth arrest (By similarity). Actively exported from the nucleus in dividing cells.

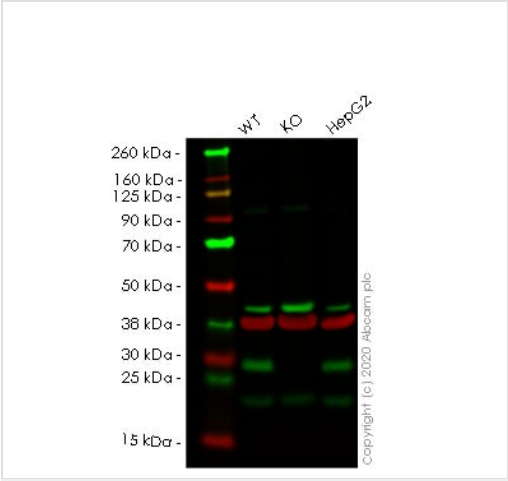
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab258237 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: 26 kDa.
Sanger Sequencing		Use at an assay dependent concentration.

Images



Western blot - Human TMUB1 knockout HeLa cell lysate (ab258237)

Lane 1: Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate (20µg)

Lane 2: TMUB1 knockout HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate (20µg)

Lane 3: HepG2 (Human liver hepatocellular carcinoma cell line) cell lysate cell lysate (20µg)

Lanes 1- 3: Merged signal (red and green). Green - **ab180586** observed at 27 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab180586 Recombinant Anti-TMUB1 antibody [EPR14066] was shown to specifically react with TMUB1 in wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) cells in western blot. Loss of signal was observed when knockout cell line **ab265852** (knockout cell lysate ab258237) was used. Wild-type and TMUB1 knockout samples were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. **ab180586** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4˚C at 1 in 10000 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 TMUB1 knockout HeLa cell lysate (ab258237)

Allele-1: 1 bp deletion in exon2

Sanger Sequencing - Human TMUB1 knockout HeLa cell lysate (ab258237)

Allele-2: 1 bp insertion in exon2

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

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