

Product datasheet

Human TGM2 (Transglutaminase 2) knockout HeLa cell lysate ab257085

[2 Images](#)

Overview

Product name	Human TGM2 (Transglutaminase 2) 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, 2 bp deletion in exon7.
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. <i>*Usage of SDS sample buffer is not recommended with these lyophilized lysates.</i>

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
ab261951 - Human TGM2 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 WWA: 16, 18 TH01: 7 TPOX: 8,12 CSF1PO: 9, 10

Target

Function Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins.

Sequence similarities Belongs to the transglutaminase superfamily. Transglutaminase family.

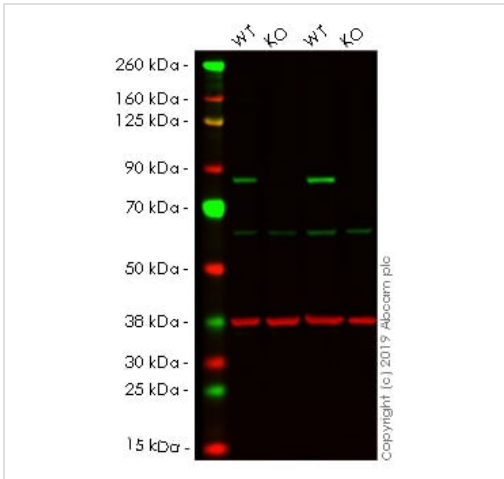
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab257085 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.

Images



Western blot - Human TGM2 knockout HeLa cell lysate (ab257085)

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

Lane 2: TGM2 knockout HeLa cell lysate (20 µg)

Lane 3: Wild-type A549 cell lysate (20 µg)

Lane 4: TGM2 knockout A549 cell lysate (20 µg)

Lanes 1-4: Merged signal (red and green). Green - **ab109200** observed at 77 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab109200 Anti-Transglutaminase 2 antibody [EP2957] was shown to specifically react with Transglutaminase 2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265245** (knockout cell lysate ab257085) was used. Wild-type and Transglutaminase 2 knockout samples were subjected to SDS-PAGE. **ab109200** and Anti-alpha Tubulin antibody [EP132Y] - Microtubule Marker (**ab52866**) 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.



Homozygous: 2 bp deletion in exon7

Sanger Sequencing - Human TGM2 knockout HeLa cell lysate (ab257085)

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