

Product datasheet

Human DDIT3 knockout SW480 cell lysate ab270708

2 Images

Overview

Product name	Human DDIT3 knockout SW480 cell lysate
Product overview	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	SW480
Organism	Human
Mutation description	Knockout achieved by CRISPR/Cas9; X = 1 bp deletion; Frameshift: 98.84%
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.*

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

Properties

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

Components	1 kit
ab280589 - Human DDIT3 knockout SW480 cell lysate	1 x 100µg
ab269601 - Human wild-type SW480 cell lysate	1 x 100µg

Cell type epithelial
Disease Adenocarcinoma
Gender Male

Target

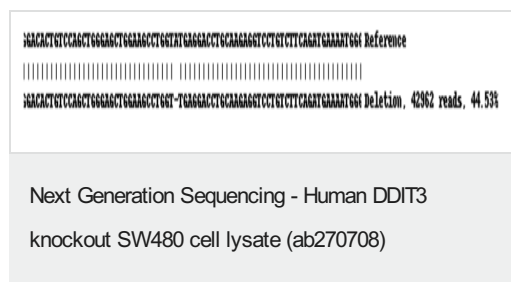
Function Inhibits the DNA-binding activity of C/EBP and LAP by forming heterodimers that cannot bind DNA.
Involvement in disease Note=A chromosomal aberration involving DDIT3 is found in a patient with malignant myxoid liposarcoma. Translocation t(12;16)(q13;p11) with FUS.
Sequence similarities Belongs to the bZIP family.
Contains 1 bZIP domain.
Cellular localization Nucleus.

Applications

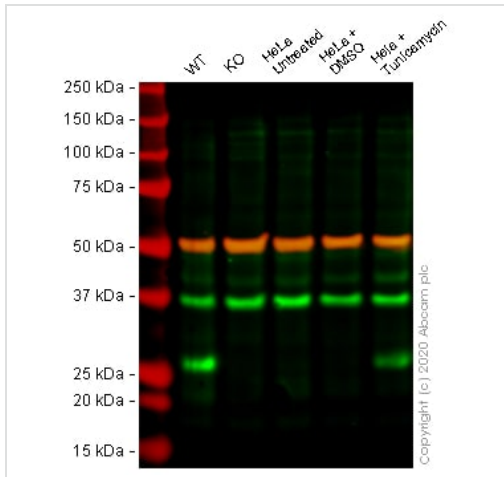
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab270708 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 19 kDa.

Images



Knockout achieved by CRISPR/Cas9; X = 1 bp deletion;
Frameshift: 98.84%



Western blot - Human DDIT3 knockout SW480 cell lysate (ab270708)

Lane 1: Wild-type SW480 cell lysate 20 ug

Lane 2: DDIT3 knockout SW480 cell lysate 20 ug

Lane 3: Untreated HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate 20 ug

Lane 4: HeLa + DMSO control cell lysate 20 ug

Lane 5: HeLa + tunicamycin (20ug/mL,4 hours) cell lysate 20 ug

Lanes 1 - 5: Merged signal (red and green). Green - **ab11419** observed at 26 kDa. Red - loading control **ab52866** (Rabbit anti-alpha Tubulin antibody [EP1332Y]) observed at 55kDa.

ab11419 was shown to react with DDIT3 in wild-type SW480 cells in western blot with loss of signal observed in DDIT3 knockout cell line **ab269585** (knockout cell lysate ab270708). Wild-type and DDIT3 knockout SW480 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with **ab11419** and **ab52866** (Rabbit anti-alpha Tubulin antibody [EP1332Y]) overnight at 4°C at 5 µg/ml and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

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