

Product datasheet

Human GBP1 knockout A549 cell lysate ab257960

2 Images

Overview

Product name	Human GBP1 knockout A549 cell lysate
Product overview	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	A549
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, Homozygous: 1 bp insertion in exon3.
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.](#)

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Tested applications **Suitable for:** WB

Properties

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

Components	1 kit
ab263600 - Human GBP1 knockout A549 cell lysate	1 x 100µg
ab255554 - Human wild-type A549 cell lysate	1 x 100µg

Cell type epithelial

Disease Carcinoma

STR Analysis Amelogenin X,YD5S818: 11 D13S317: 11 D7S820: 8, 11 D16S539: 11, 12 WWA: 14 TH01: 8,9.3 TPOX: 8,11 CSF1PO: 10, 12

Target

Function Binds GTP, GDP and GMP.

Sequence similarities Belongs to the GBP family.

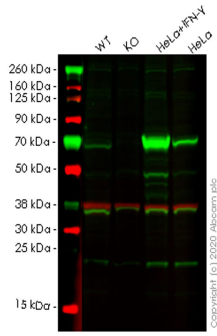
Cellular localization Cell membrane.

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab257960 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: 68 kDa.

Images



Western blot - Human GBP1 knockout A549 cell lysate (ab257960)

Lane 1: Wild-type A549 cell lysate (20 ug)

Lane 2: GBP1 knockout A549 cell lysate (20 ug)

Lane 3: HeLa treated with 10ng/ml IFN- γ for 24 hours, whole cell lysate (20 ug)

Lane 4: Untreated HeLa cell lysate (20 ug)

[ab131255](#) was shown to specifically react with GBP1 in wild-type A549 cells. Loss of signal was observed when knockout cell line [ab267202](#) (knockout cell lysate ab257960) was used. Wild-type and GBP1 knockout samples were subjected to SDS-PAGE. [ab131255](#) 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 20000 dilution for 1 hour at room temperature before imaging.

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Mut  CCTTGCAGGCTTCTCTCTGGGCTCCACGGTGCAGTCTCACACTAAAGGAATCTGGATGT
      |||
WT   CCTTGCAGGCTTCTCTCTGGGCTCCACGGTGCAGTCTCACACTAAAGGAATCTGGATGT
  
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Sanger Sequencing - Human GBP1 knockout A549 cell lysate (ab257960)

Homozygous: 1 bp insertion in exon3

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