

Product datasheet

Human YES1 knockout HeLa cell lysate ab258290

4 Images

Overview

Product name	Human YES1 knockout HeLa cell lysate
Product overview	Western blot data indicates that the CRISPR gene edit may have resulted in a truncation of the protein of interest. Please see data images.
Parental Cell Line	HeLa
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 14 bp deletion in exon2 and 31 bp deletion in exon2 and 8 bp deletion in exon2.
Passage number	<20
Knockout validation	Sanger Sequencing
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
ab255929 - Human wild-type HeLa cell lysate	1 x 100µg
ab262366 - Human YES1 knockout 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 Promotes infectivity of *Neisseria gonorrhoeae* in epithelial cells by phosphorylating MCP/CD46.

Sequence similarities Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily.
Contains 1 protein kinase domain.
Contains 1 SH2 domain.
Contains 1 SH3 domain.

Post-translational modifications Autophosphorylated.

Cellular localization Cytoplasm > cytosol. In epithelial cells infected with *Neisseria gonorrhoeae*, forms aggregates beneath bacterial microcolonies.

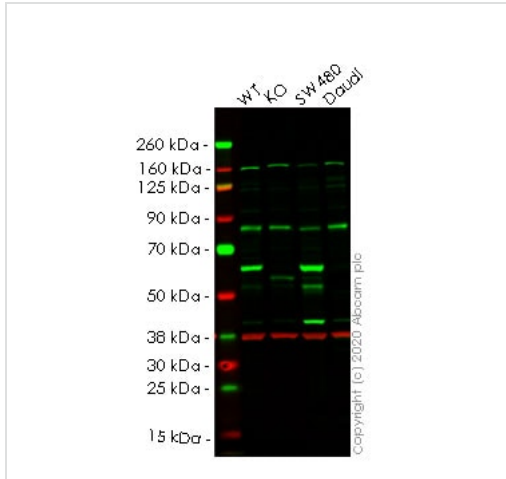
Form This protein is known to be similar in amino acid sequence to HCK (P08631), LCK (P06239), FYN (P06241), SRC (P12931), and LYN (P07948). Therefore, cross-reactivity with these homologous proteins may be observed. We would be happy to provide immunogen alignment information upon request.

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab258290 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: 60 kDa. Western blot data indicates that the CRISPR gene edit may have resulted in a truncation of the protein of interest. Please see data images.



Western blot - Human YES1 knockout HeLa cell lysate (ab258290)

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

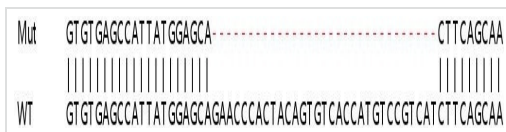
Lane 2: YES1 knockout HeLa cell lysate (20µg)

Lane 3: SW480 cell lysate (20µg)

Lane 4: Daudi cell lysate (20µg)

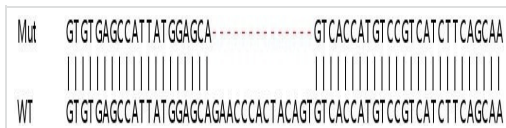
Lanes 1- 4: Merged signal (red and green). Green - **ab109265** observed at 60 kDa. Red - loading control, **ab8245** observed at 37 kDa.

ab109265 Anti-Yes1 antibody [EPR3173] was shown to specifically react with Yes1 in wild-type HeLa cells in western blot. The band observed in the knockout cell line **ab265202** (knockout cell lysate ab258290) lane below 60kDa may represent truncated forms and cleaved fragments. This has not been investigated further. Wild-type and Yes1 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. **ab109265** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4 °C at 1 in 1000 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 YES1 knockout HeLa cell lysate (ab258290)

Allele-1: 31 bp deletion in exon2



Sanger Sequencing - Human YES1 knockout HeLa cell lysate (ab258290)

Allele-2: 14 bp deletion in exon2

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Mut  GTGTGAGCCATTATGGAGCA-----TACAGTGCACCATGTCGGTCATCTTCAGCAA
      |||
WT   GTGTGAGCCATTATGGAGCAGAACCCTACAGTGCACCATGTCGGTCATCTTCAGCAA
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Allele-3: 8 bp deletion in exon2

Sanger Sequencing - Human YES1 knockout HeLa
cell lysate (ab258290)

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