

Human ATF3 knockout HCT116 cell lysate ab257074

画像数 3

製品の概要

製品名	Human ATF3 knockout HCT116 cell lysate
製品の概要	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HCT116
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, Homozygous: 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.*

特記事項

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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アプリケーション

適用あり: WB

製品の特性

保存方法

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

内容	1 kit
ab263489 - Human ATF3 knockout HCT116 cell lysate	1 x 100µg
ab255555 - Human wild-type HCT116 cell lysate	1 x 100µg

Cell type

epithelial

Disease

Carcinoma

STR Analysis

Amelogenin X D5S818: 10, 11 D13S317: 10, 12 D7S820: 11, 12 D16S539: 11, 13 vWA: 17, 22 TH01: 8,9 TPOX: 8, 9 CSF1PO: 7, 10

ターゲット情報

機能

This protein binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Represses transcription from promoters with ATF sites. It may repress transcription by stabilizing the binding of inhibitory cofactors at the promoter. Isoform 2 activates transcription presumably by sequestering inhibitory cofactors away from the promoters.

配列類似性

Belongs to the bZIP family. ATF subfamily.
Contains 1 bZIP domain.

細胞内局在

Nucleus.

アプリケーション

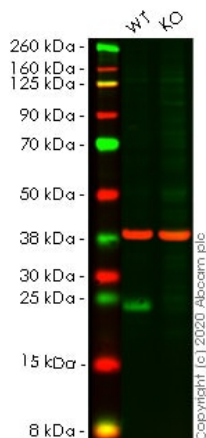
The Abpromise guarantee

Abpromise保証は、 次のテスト済みアプリケーションにおけるab257074の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Predicted molecular weight: 21 kDa.

画像



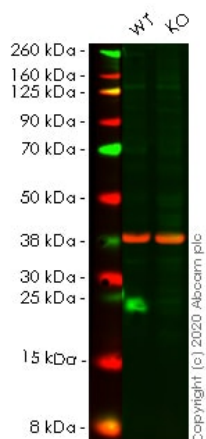
Western blot - Human ATF3 knockout HCT116 cell lysate (ab257074)

Lane 1: Wild-type HCT116 cell lysate (20 µg)

Lane 2: ATF3 knockout HCT116 cell lysate (20 µg)

Lanes 1-2: Merged signal (red and green). Green - [ab254268](#) observed at 21 kDa. Red - loading control [ab8245](#) observed at 37 kDa.

[ab254268](#) Recombinant Anti-ATF3 antibody [EPR22610-19] was shown to specifically react with ATF3 in wild-type HCT116 cells. Loss of signal was observed when knockout cell line [ab266872](#) (knockout cell lysate ab257074) was used. Wild-type and ATF3 knockout samples were subjected to SDS-PAGE. [ab254268](#) 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.



Western blot - Human ATF3 knockout HCT116 cell lysate (ab257074)

Lane 1: Wild-type HCT116 cell lysate (20 µg)

Lane 2: ATF3 knockout HCT116 cell lysate (20 µg)

Lanes 1-2: Merged signal (red and green). Green - [ab207434](#) observed at 21 kDa. Red - loading control [ab8245](#) observed at 37 kDa.

[ab207434](#) Anti-ATF3 antibody [EPR19488] - ChIP Grade was shown to specifically react with ATF3 in wild-type HCT116 cells. Loss of signal was observed when knockout cell line [ab266872](#) (knockout cell lysate ab257074) was used. Wild-type and ATF3 knockout samples were subjected to SDS-PAGE. [ab207434](#) 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.

Mut	GCTAACCTGACGCCCTTTGTCAAGGAAGAGCTGAGGTTTGCCATCCAGAACAAGCACCT
WT	GCTAACCTGACGCCCTTTGTCAAGGAAGAGCTGAGGTTTGCCATCCAGAACAAGCACCT
Sanger Sequencing - Human ATF3 knockout	
HCT116 cell lysate (ab257074)	

Homozygous: 1 bp insertion in exon2

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