abcam

Product datasheet

Human DCP1A knockout HEK-293 cell lysate ab261665

画像数 3

製品の概要

製品名	Human DCP1A knockout HEK-293 cell lysate
製品の概要	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HEK-293
Organism	Human
Mutation description	Knockout achieved by CRISPR/Cas9; X = 7 bp deletion; Frameshift = 100%
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.*
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.** Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances. It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses. This product is subject to limited use licenses from The Broad Institute and ERS Genomics Limited, and is developed with patented technology. For full details of the limited use licenses and relevant patents please refer to our **limited use license** and **patent pages**.
アプリケーション	**適用あり:** WB

製品の特性

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保存方法 Store at -80°C. Please refer to protocols.

内容	1 kit
ab280415 - Human DCP1A knockout HEK293 cell lysate	1 x 100µg
ab259780 - Human wild-type HEK-293 cell lysate	1 x 100µg

Cell type epithelial

Gender Female

ターゲット情報

機能 Necessary for the degradation of mRNAs, both in normal mRNA turnover and in nonsense-mediated mRNA decay. Removes the 7-methyl guanine cap structure from mRNA molecules, yielding a 5'-phosphorylated mRNA fragment and 7m-GDP. Contributes to the transactivation of target genes after stimulation by TGFB1.

組織特異性 Detected in heart, brain, placenta, lung, skeletal muscle, liver, kidney and pancreas.

配列類似性 Belongs to the DCP1 family.

細胞内局在 Cytoplasm > P-body. Nucleus. Co-localizes with NANOS3 in the processing bodies (By similarity). Predominantly cytoplasmic, in processing bodies (PB). Nuclear, after TGFB1 treatment. Translocation to the nucleus depends on interaction with SMAD4.

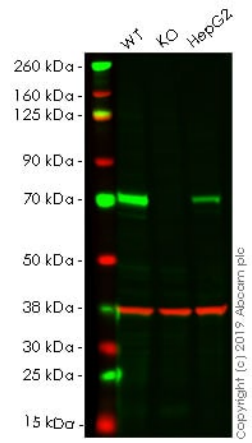
アプリケーション

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ab261665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.

画像



Western blot - Human DCP1A knockout HEK-293 cell lysate (ab261665)

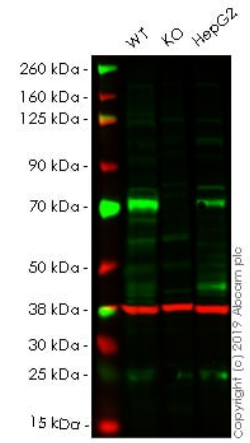
Lane 1: Wild-type HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

Lane 2: DCP1A knockout HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

Lane 3: Hep G2 (Human liver hepatocellular carcinoma cell line) whole cell lysate

Lanes 1 - 3: Merged signal (red and green). Green - **ab183709** observed at 75 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab183709 was shown to specifically react with DCP1A in wild-type HEK-293 cells as signal was lost in DCP1A knockout cell line **ab261857** (knockout cell lysate ab261665). Wild-type and DCP1A knockout samples were subjected to SDS-PAGE. Ab183709 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Human DCP1A knockout HEK-293 cell lysate (ab261665)

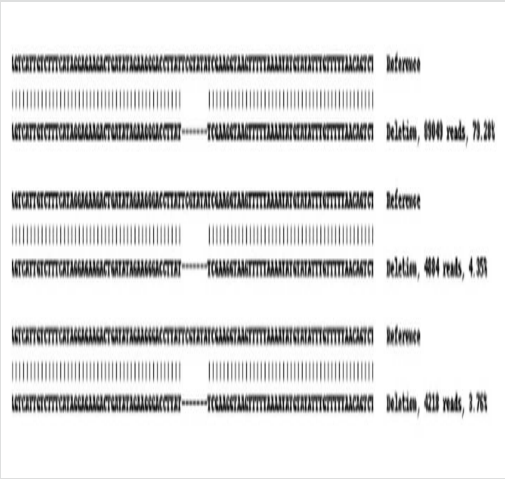
Lane 1: Wild-type HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

Lane 2: DCP1A knockout HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

Lane 3: Hep G2 (Human liver hepatocellular carcinoma cell line) whole cell lysate

Lanes 1 - 3: Merged signal (red and green). Green - **ab47811** observed at 75 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab47811 was shown to recognize DCP1A in wild-type HEK-293 cells as signal was lost at the expected MW in DCP1A knockout cell line **ab261857** (knockout cell lysate ab261665). Additional cross-reactive bands were observed in the wild-type and knockout samples. Wild-type and DCP1A knockout samples were subjected to SDS-PAGE. Ab47811 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1 ug/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Next Generation Sequencing - Human DCP1A knockout HEK-293 cell lysate (ab261665)

X = 7 bp deletion

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