

Human NPC2 (Niemann Pick C2) knockout HEK-293T cell lysate ab258079

画像数 3

製品の概要

製品名	Human NPC2 (Niemann Pick C2) knockout HEK-293T cell lysate
製品の概要	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HEK293T
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, Homozygous: 1 bp insertion in exon 1.
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. <i>*Usage of SDS sample buffer is not recommended with these lyophilized lysates.</i>

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
ab261134 - Human NPC2 knockout HEK293T cell lysate	1 x 100µg
ab255553 - Human wild-type HEK293T cell lysate	1 x 100µg

Cell type epithelial

STR Analysis Amelogenin X D5S818: 8, 9 D13S317: 12, 14 D7S820: 11 D16S539: 9, 13 vWA: 16, 19 TH01: 7, 9.3 TPOX: 11 CSF1PO: 11, 12

ターゲット情報

機能 May be involved in the regulation of the lipid composition of sperm membranes during the maturation in the epididymis.

組織特異性 Epididymis.

関連疾患 Defects in NPC2 are the cause of Niemann-Pick disease type C2 (NPDC2) [MIM:607625]. A lysosomal storage disorder that affects the viscera and the central nervous system. It is due to defective intracellular processing and transport of low-density lipoprotein derived cholesterol. It causes accumulation of cholesterol in lysosomes, with delayed induction of cholesterol homeostatic reactions. Niemann-Pick disease type C2 has a highly variable clinical phenotype. Clinical features include variable hepatosplenomegaly and severe progressive neurological dysfunction such as ataxia, dystonia and dementia. The age of onset can vary from infancy to late adulthood.

配列類似性 Belongs to the NPC2 family.

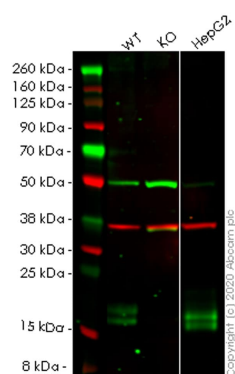
細胞内局在 Secreted.

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ab258079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: 17 kDa.

画像



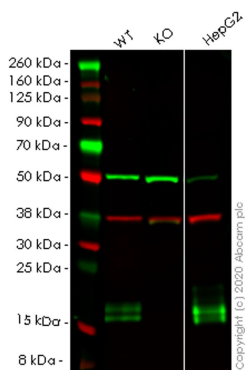
Western blot - Human NPC2 (Niemann Pick C2)
knockout HEK293T cell lysate (ab258079)

Lane 1: Wild-type HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate (20 ug)

Lane 2: NPC2 knockout HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate (20 ug)

Lane 3: HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate (20 ug)

ab218192 was shown to specifically react with Niemann Pick C2 in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line **ab266749** (knockout cell lysate ab258079) was used. Wild-type and Niemann Pick C2 knockout samples were subjected to SDS-PAGE. **ab218192** 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.



Western blot - Human NPC2 (Niemann Pick C2)
knockout HEK293T cell lysate (ab258079)

Lane 1: Wild-type HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate (20 ug)

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Lane 3: HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate (20 ug)

ab207158 was shown to specifically react with Niemann Pick C2 in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line **ab266749** (knockout cell lysate ab258079) was used. Wild-type and Niemann Pick C2 knockout samples were subjected to SDS-PAGE. **ab207158** 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.

Mut	TCCCGAGCTTGGAACTTCGTTATCCGCGAT	GCCTTTCCTGGCAGCTACATTCCTGCTCC
WT	TCCCGAGCTTGGAACTTCGTTATCCGCGAT	GCCTTTCCTGGCAGCTACATTCCTGCTCC

Sanger Sequencing - Human NPC2 knockout
HEK293T cell lysate (ab258079)

Homozygous: 1 bp insertion in exon 1

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