

Human PTGS2 (COX2 / Cyclooxygenase 2) knockout HeLa cell lysate ab263795

画像数 3

製品の概要

製品名	Human PTGS2 (COX2 / Cyclooxygenase 2) knockout HeLa cell lysate
製品の概要	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HeLa
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 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. <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
ab255524 - Human PTGS2 knockout HeLa cell lysate	1 x 100µg
ab255929 - Human wild-type 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 WWA: 16, 18 TH01: 7 TPOX: 8,12 CSF1PO: 9, 10

ターゲット情報

機能 Mediates the formation of prostaglandins from arachidonate. May have a role as a major mediator of inflammation and/or a role for prostanoid signaling in activity-dependent plasticity.

パスウェイ Lipid metabolism; prostaglandin biosynthesis.

配列類似性 Belongs to the prostaglandin G/H synthase family.
Contains 1 EGF-like domain.

翻訳後修飾 S-nitrosylation by NOS2 (iNOS) activates enzyme activity. S-nitrosylation may take place on different Cys residues in addition to Cys-561.

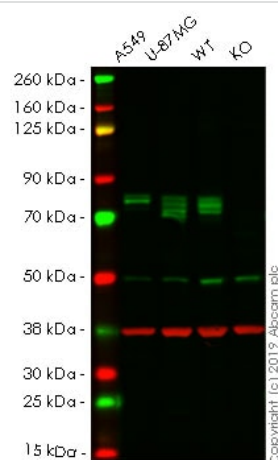
細胞内局在 Microsome membrane. Endoplasmic reticulum membrane.

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ab263795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 PTGS2 knockout HeLa cell lysate (ab263795)

Lane 1: A549 cell lysate (20 µg)

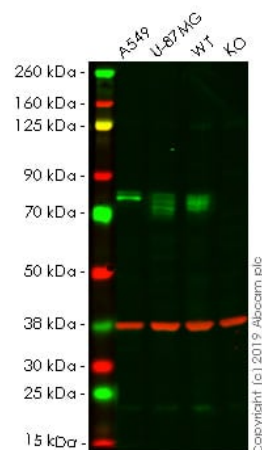
Lane 2: U-87 MG cell lysate (20 µg)

Lane 3: Wild-type HeLa cell lysate (20 µg)

Lane 4: PTGS2 knockout HeLa cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - **ab169782** observed at 75 kDa. Red - loading control, **ab8245** observed at 37 kDa.

ab169782 was shown to react with COX2 / Cyclooxygenase 2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab255420** (knockout cell lysate ab263795) was used. Wild-type and COX2 / Cyclooxygenase 2 knockout samples were subjected to SDS-PAGE. **ab169782** 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 PTGS2 knockout HeLa cell lysate (ab263795)

Lane 1: A549 cell lysate (20 µg)

Lane 2: U-87 MG cell lysate (20 µg)

Lane 3: Wild-type HeLa cell lysate (20 µg)

Lane 4: PTGS2 knockout HeLa cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - **ab179800** observed at 75 kDa. Red - loading control, **ab8245** observed at 37 kDa.

ab179800 was shown to react with COX2 / Cyclooxygenase 2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab255420** (knockout cell lysate ab263795) was used. Wild-type and COX2 / Cyclooxygenase 2 knockout samples were subjected to SDS-PAGE. **ab179800** 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	AAATCCTTGCTGTCCACCCATGTCAAAAACCGAGGTGTATGTATGAGTGTGGGATTTG
WT	AAATCCTTGCTGTCCACCCATGTCAAAA CCGAGGTGTATGTATGAGTGTGGGATTTG

Sanger Sequencing - Human PTGS2 knockout HeLa cell lysate (ab263795)

Homozygous: 1 bp insertion in exon2

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