abcam

Product datasheet

Human SMAD1 knockout HeLa cell lysate ab257686

画像数3

製品の概要

製品名 Human SMAD1 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 deletion in exon3 and 1 bp insertion in exon3.

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

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製品の特性

保存方法

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

内容	1 kit
ab262187 - Human SMAD1 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 vWA: 16, 18

TH01: 7 TPOX: 8,12 CSF1PO: 9, 10

ターゲット情報

機能 Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor

kinase. SMAD1 is a receptor-regulated SMAD (R-SMAD). SMAD1/OAZ1/PSMB4 complex

mediates the degradation of the CREBBP/EP300 repressor SNIP1.

組織特異性 Ubiquitous. Highest expression seen in the heart and skeletal muscle.

配列類似性 Belongs to the dwarfin/SMAD family.

Contains 1 MH1 (MAD homology 1) domain. Contains 1 MH2 (MAD homology 2) domain.

翻訳後修飾 Phosphorylated on serine by BMP type 1 receptor kinase.

Ubiquitin-mediated proteolysis by SMAD-specific E3 ubiquitin ligase SMURF1.

細胞内局在 Cytoplasm. Nucleus. Cytoplasmic in the absence of ligand. Migrates to the nucleus when

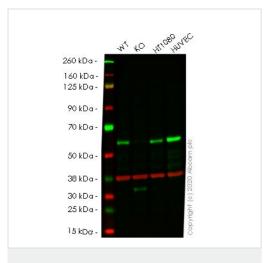
complexed with SMAD4. Co-localizes with LEMD3 at the nucleus inner membrane.

アプリケーション

The Abpromise guarantee <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab257686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: 52 kDa.

画像



Western blot - Human SMAD1 knockout HeLa cell lysate (ab257686)

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

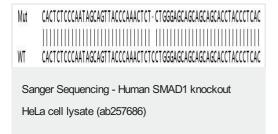
Lane 2: SMAD1 knockout HeLa cell lysate (20µg)

Lane 3: HT1080 cell lysate (20µg)

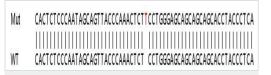
Lane 4: Huvec cell lysate (20µg)

Lanes 1-4: Merged signal (red and green). Green - <u>ab126761</u> observed at 52 kDa. Red - loading control, <u>ab8245</u> observed at 37 kDa.

<u>ab126761</u> Anti-Smad1 antibody [EPR5522] was shown to specifically react with Smad1 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line <u>ab265400</u> (knockout cell lysate ab257686) was used. Wild-type and Smad1 knockout samples were subjected to SDS-PAGE. <u>ab126761</u> and Anti-GAPDH antibody [6C5] - Loading Control (<u>ab8245</u>) were incubated overnight at 4 °C at 1 in 1000 and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit lgG H&L (IRDye® 800CW) preadsorbed (<u>ab216773</u>) and Goat anti-Mouse lgG H&L (IRDye® 680RD) preadsorbed (<u>ab216776</u>) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Allele-1: 1 bp deletion in exon3



Sanger Sequencing - Human SMAD1 knockout HeLa cell lysate (ab257686) Allele-2: 1 bp insertion in exon3

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