

Human TLE1 knockout HEK-293T cell lysate ab257240

4 图像

概述

产品名称	人TLE1 knockout HEK-293T cell裂解物
产品概述	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HEK293T
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 13 bp deletion in exon 12 and Insertion of the selection cassette in exon 12.
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>

说明

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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经测试应用

适用于: WB

性能

存放说明 Store at -80°C. Please refer to protocols.

组件	1 kit
ab263471 - Human TLE1 knockout HEK293T cell lysate	1 x 100µg
ab255594 - Human wild-type HEK293T cell lysate	1 x 100µg

Cell type epithelial

STR Analysis Amelogenin X D5S818: 8, 9 D13S317: 11, 12, 14 D7S820: 11 D16S539: 9, 13 vWA: 15, 20 TH01: 7, 9.3 TPOX: 11, 12 CSF1PO: 12

靶标

功能 Transcriptional corepressor that binds to a number of transcription factors. Inhibits NF-kappa-B-regulated gene expression. Inhibits the transcriptional activation mediated by FOXA2, and by CTNNB1 and TCF family members in Wnt signaling. The effects of full-length TLE family members may be modulated by association with dominant-negative AES. Unusual function as coactivator for ESRRG.

组织特异性 In all tissues examined, mostly in brain, liver and muscle.

序列相似性 Belongs to the WD repeat Groucho/TLE family.
Contains 6 WD repeats.

结构域 WD repeat Groucho/TLE family members are characterized by 5 regions, a glutamine-rich Q domain, a glycine/proline-rich GP domain, a central CcN domain, containing a nuclear localization signal, and a serine/proline-rich SP domain. The most highly conserved are the N-terminal Q domain and the C-terminal WD-repeat domain.

翻译后修饰 Phosphorylated, probably by CDK1. The degree of phosphorylation varies throughout the cell cycle, and is highest at the G2/M transition. Becomes hyperphosphorylated in response to cell differentiation and interaction with HES1 or RUNX1.
Ubiquitinated by XIAP/BIRC4.

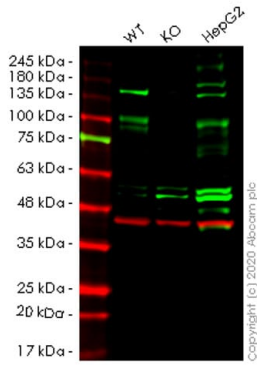
细胞定位 Nucleus. Nuclear and chromatin-associated, depending on isoforms and phosphorylation status. Hyperphosphorylation decreases the affinity for nuclear components.

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab257240于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use at an assay dependent concentration. Predicted molecular weight: 83 kDa.



Western blot - Human TLE1 knockout HEK293T cell lysate (ab257240)

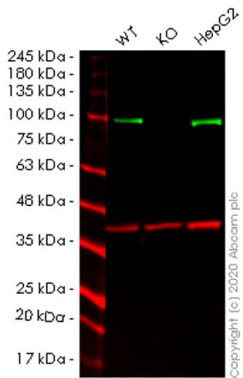
Lane 1: Wild-type HEK293T cell lysate (20 µg)

Lane 2: TLE1 knockout HEK293T cell lysate (20 µg)

Lane 3: HepG2 cell lysate (20 µg)

Lanes 1-3: Merged signal (red and green). Green - **ab131648** observed at 83 kDa. Red - loading control, **ab181602** observed at 37 kDa.

ab131648 Anti-TLE 1 antibody [OT1F5] was shown to specifically react with TLE 1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab265059** (knockout cell lysate ab257240) was used. Wild-type and TLE 1 knockout samples were subjected to SDS-PAGE. **ab131648** and Anti-GAPDH antibody [EPR16891] - Loading Control (**ab181602**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



Western blot - Human TLE1 knockout HEK293T cell lysate (ab257240)

Lane 1: Wild-type HEK293T cell lysate (20 µg)

Lane 2: TLE1 knockout HEK293T cell lysate (20 µg)

Lane 3: HepG2 cell lysate (20 µg)

Lanes 1-3: Merged signal (red and green). Green - **ab183742** observed at 83 kDa. Red - loading control, **ab8245** observed at 37 kDa.

ab183742 Anti-TLE 1 antibody [EPR9386(2)] was shown to specifically react with TLE 1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab265059** (knockout cell lysate ab257240) was used. Wild-type and TLE 1 knockout samples were subjected to SDS-PAGE. **ab183742** 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 10000 dilution for 1 hour at room temperature before imaging.

Mut	AGCCTCAGCCATAGAC - - - - - AAGCGGTACAGCATCGCCTCTTGTGTGC
WT	AGCCTCAGCCATAGACCCCTCGTTAACAAGCGGTACAGCATCGCCTCTTGTGTGC

Sanger Sequencing - Human TLE1 knockout
HEK293T cell lysate (ab257240)

Allele-1: 13 bp deletion in exon 12

Mut	CATAGACCCCTCGTTAACC****Insertion*****AAGCGGTACAGCATCGCCT
WT	CATAGACCCCTCGTTAACC AAGCGGTACAGCATCGCCT

Sanger Sequencing - Human TLE1 knockout
HEK293T cell lysate (ab257240)

Allele-2: Insertion of the selection cassette in exon 12

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