

Human STAT2 knockout A549 cell lysate ab257185

3 图像

概述

产品名称	人STAT2 knockout A549 cell裂解物
产品概述	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	A549
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 19 bp deletion in exon2 and 1 bp deletion 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.

**Usage of SDS sample buffer is not recommended with these lyophilized lysates.*

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
ab263524 - Human STAT2 knockout A549 cell lysate	1 x 100µg
ab255554 - Human wild-type A549 cell lysate	1 x 100µg

Cell type epithelial
Disease Carcinoma
STR Analysis Amelogenin X,YD5S818: 11 D13S317: 11 D7S820: 8, 11 D16S539: 11, 12 WWA: 14 TH01: 8,9.3 TPOX: 8,11 CSF1PO: 10, 12

靶标

功能 Signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state.

序列相似性 Belongs to the transcription factor STAT family.
Contains 1 SH2 domain.

翻译后修饰 Tyrosine phosphorylated in response to IFN-alpha.

细胞定位 Cytoplasm. Nucleus. Translocated into the nucleus upon activation by IFN-alpha/beta.

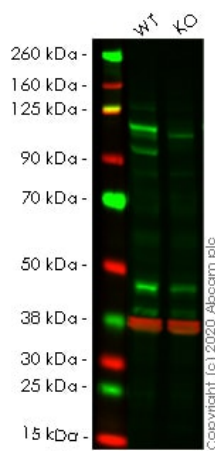
应用

The Abpromise guarantee **Abpromise™** 承诺保证使用ab257185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: 97 kDa.

图片



Western blot - Human STAT2 knockout A549 cell lysate (ab257185)

Lane 1: Wild-type A549 cell lysate (20 µg)

Lane 2: STAT2 knockout A549 cell lysate (20 µg)

Lanes 1-2: Merged signal (red and green). Green - **ab32367** observed at 97 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab32367 Anti-STAT2 antibody [Y141] was shown to specifically react with STAT2 in wild-type A549 cells. Loss of signal was observed when knockout cell line **ab267006** (knockout cell lysate ab257185) was used. Wild-type and STAT2 knockout samples were subjected to SDS-PAGE. **ab32367** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 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.

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Mut  TGCAGTAAAGCTGGTGCAGCTGATC-----TTCTGCAGCATTCC
      |||
WT   TGCAGTAAAGCTGGTGCAGCTGATCCTGAAAGGGGCTGTCAAGATTCTGCAGCATTCC
  
```

Sanger Sequencing - Human STAT2 knockout A549 cell lysate (ab257185)

Allele-1: 19 bp deletion in exon2

```

Mut  TGCAGTAAAGCTGGTGCAGCTGATC-TGAAAGGGGCTGTCAAGATTCTGCAGCATTCC
      |||
WT   TGCAGTAAAGCTGGTGCAGCTGATCCTGAAAGGGGCTGTCAAGATTCTGCAGCATTCC
  
```

Sanger Sequencing - Human STAT2 knockout A549 cell lysate (ab257185)

Allele-2: 1 bp deletion in exon2

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