

# Human HK2 (Hexokinase II) knockout HCT116 cell lysate ab275250

## 2 图像

### 概述

产品名称	人HK2 (Hexokinase II) knockout HCT116 cell裂解物
产品概述	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HCT116
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, Homozygous: 1 bp insertion in exon 2
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
ab277294 - Human HK2 knockout HCT116 cell lysate	1 x 100µg
ab277289 - Human wild-type HCT116 cell lysate	1 x 100µg

Cell type epithelial  
Disease Carcinoma  
Gender Male

靶标

组织特异性 Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle.

通路 Carbohydrate metabolism; hexose metabolism.

序列相似性 Belongs to the hexokinase family.  
Contains 2 hexokinase domains.

结构域 The N- and C-terminal halves of this hexokinase show extensive sequence similarity to each other. The catalytic activity is associated with the C-terminus while regulatory function is associated with the N-terminus. Each domain can bind a single glucose and Gluc-6-P molecule.

细胞定位 Mitochondrion outer membrane. Its hydrophobic N-terminal sequence may be involved in membrane binding.

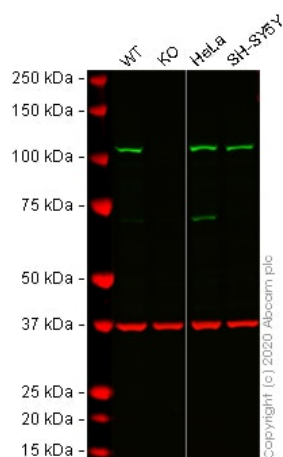
应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab275250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: 102 kDa.

图片



Western blot - Human HK2 (Hexokinase II) knockout HCT116 cell lysate (ab275250)

**Lane 1:** Wild-type HCT116 cell lysate 20 ug

**Lane 2:** HK2 knockout HCT116 cell lysate 20 ug

**Lane 3:** HeLa cell lysate 20 ug

**Lane 4:** SH-SY5Y cell lysate 20 ug

**Lanes 1 - 4:** Merged signal (red and green). Green - [ab209847](#) observed at 105 kDa. Red - loading control, [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

[ab209847](#) was shown to react with Anti-Hexokinase II in wild-type HCT 116 cells in western blot with loss of signal observed in HK2 knockout cell line [ab273721](#) (HK2 knockout cell lysate ab275250). HCT 116 wild-type and HK2 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with [ab209847](#) and [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

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WT   GCCTCTCTGATGAGACCCCTCTT-GGAGATCTCTAAGCGGTTCCG
      |||||
Mut  GCCTCTCTGATGAGACCCCTCTTGGGAGATCTCTAAGCGGTTCCG

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Sanger Sequencing - Human HK2 (Hexokinase II) knockout HCT116 cell lysate (ab275250)

Allele-1: 1 bp insertion in exon 2.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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