

### Anti-Hexokinase II antibody [3D3] ab104836

★★★★★ [8 Abreviews](#) [66 References](#) [画像数 6](#)

#### 製品の概要

製品名	Anti-Hexokinase II antibody [3D3]
製品の詳細	Mouse monoclonal [3D3] to Hexokinase II
由来種	Mouse
アプリケーション	<b>適用あり:</b> WB, IHC-P, Flow Cyt
種交差性	<b>交差種:</b> Human
免疫原	Recombinant fragment corresponding to Human Hexokinase II.
ポジティブ・コントロール	WB: Jurkat, HeLa and HEK293 cell lysates. IHC-P: Human esophagus and lung cancer tissues. Flow Cyt: K562 cells.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: 0.03% Sodium azide Constituent: PBS
精製度	Protein G purified
特記事項 (精製)	Purified from tissue culture supernatant.
ポリ/モノ	モノクローナル
クローン名	3D3
アイソタイプ	IgG1

#### 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ab104836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確認ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (4)	1/500 - 1/2000. Predicted molecular weight: 102 kDa.
IHC-P	★★★☆☆ (3)	1/200 - 1/1000.
Flow Cyt		Use at an assay dependent concentration. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## ターゲット情報

### 組織特異性

Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle.

### パスウェイ

Carbohydrate metabolism; hexose metabolism.

### 配列類似性

Belongs to the hexokinase family.

Contains 2 hexokinase domains.

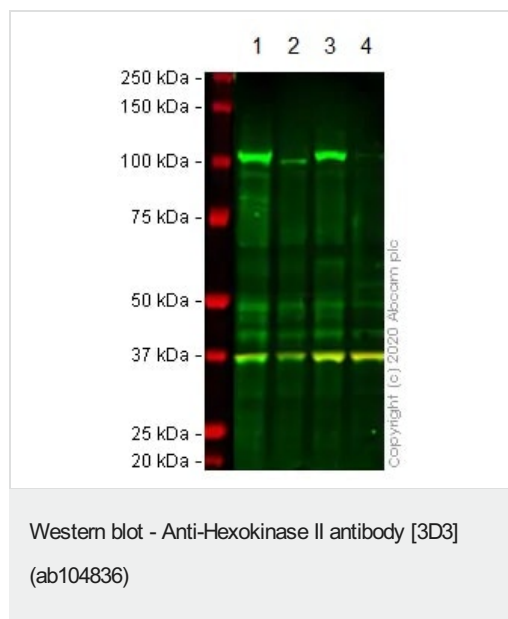
### ドメイン

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.

### 細胞内局在

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

## 画像



**All lanes :** Anti-Hexokinase II antibody [3D3] (ab104836) at 1/500 dilution

**Lane 1 :** Wild-type HEK-293T cell lysate

**Lane 2 :** HK2 CRISPR/Cas9 edited HEK-293T cell lysate

**Lane 3 :** HeLa cell lysate

**Lane 4 :** A549 cell lysate

Lysates/proteins at 20 µg per lane.

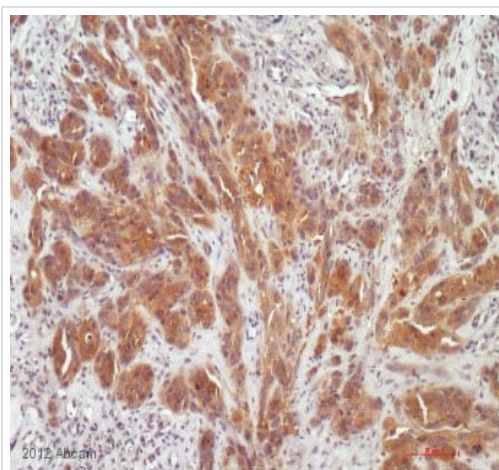
Performed under reducing conditions.

**Predicted band size:** 102 kDa

**Observed band size:** 102 kDa

**Lanes 1 - 4:** Merged signal (red and green). Green - ab104836 observed at 102 kDa. Red - loading control **ab181602** (Rabbit Anti-GAPDH antibody [EPR16891]) observed at 37kDa.

ab104836 was shown to react with Hexokinase II in wild-type HEK-293T cells in western blot. The band observed in HK2 CRISPR/Cas9 edited sample lane below 102 kDa may represent truncated forms and cleaved fragments. This has not been investigated further. Wild-type and HK2 CRISPR/Cas9 edited HEK-293T cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab104836 and **ab181602** (Rabbit Anti-GAPDH antibody [EPR16891]) overnight at 4°C at a 1 in 500 Dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

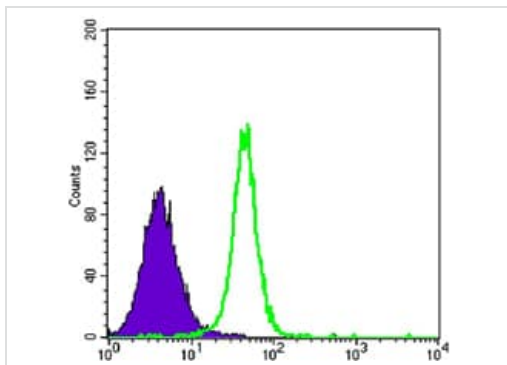


Immunohistochemical analysis of human skin tissue, staining Hexokinase II with ab104836.

Tissue was fixed with paraformaldehyde and blocked with 10% BSA for 2 hours at room temperature; antigen retrieval was by heat mediation in citrate buffer. Samples were incubated with primary antibody (1/250 in 5% NGS + 10% BSA in PBS) for 16 hours at 4°C. An HRP-conjugated goat anti-mouse polyclonal IgG (1/250) was used as the secondary antibody.

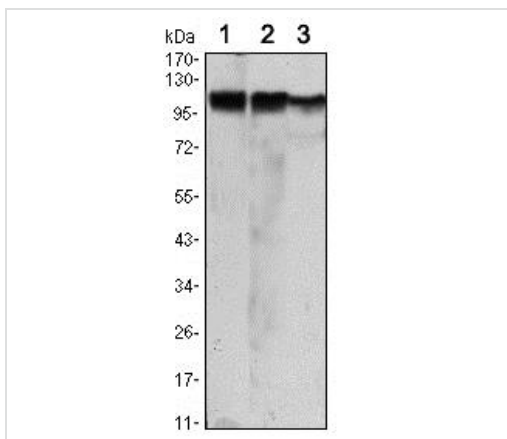
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hexokinase II antibody [3D3] (ab104836)

This image is courtesy of an Abreview submitted by Ms Hadas Pahima



Flow Cytometry - Anti-Hexokinase II antibody [3D3]  
(ab104836)

ab104836 staining Hexokinase II in K562 cells by Immunofluorescence (green) and negative control (purple).



Western blot - Anti-Hexokinase II antibody [3D3]  
(ab104836)

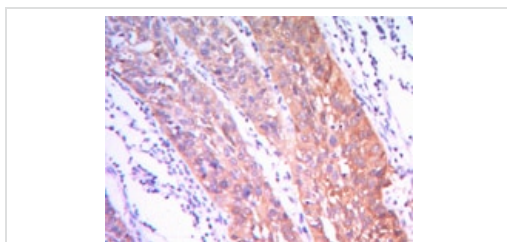
**All lanes :** Anti-Hexokinase II antibody [3D3] (ab104836) at 1/500 dilution

**Lane 1 :** Jurkat cell lysate

**Lane 2 :** HeLa cell lysate

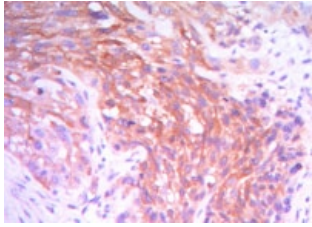
**Lane 3 :** HEK293 cell lysate

**Predicted band size:** 102 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hexokinase II antibody [3D3] (ab104836)

ab104836 at 1/200 dilution staining Hexokinase II in human esophagus cancer by Immunohistochemistry, Paraffin-embedded tissue with DAB staining.



ab104836 at 1/200 dilution staining Hexokinase II in human lung cancer by Immunohistochemistry, Paraffin-embedded tissue with DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hexokinase II antibody [3D3] (ab104836)

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