


# Anti-Glypican 3 antibody ab101478

敲除 验证

## 3 图像

### 概述

产品名称	Anti-Glypican 3抗体
描述	兔多克隆抗体to Glypican 3
宿主	Rabbit
经测试应用	适用于: ICC/IF, WB
种属反应性	与反应: Human 预测可用于: Mouse, Rat, Cow, Chimpanzee 
免疫原	Synthetic peptide corresponding to Human Glypican 3 aa 100-200 conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab113760</a> )
阳性对照	This antibody gave a positive signal in the following lysates: Human Kidney Tissue; Human Liver Tissue; HepG2 Whole Cell; HEK293 Whole Cell.
常规说明	<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>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our

scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™** 承诺保证使用 ab101478 于以下的经测试应用

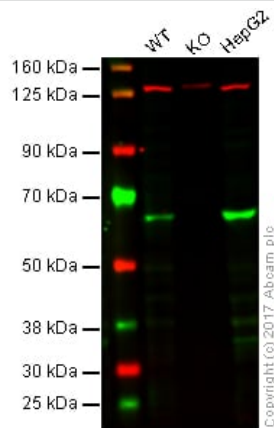
“应用说明”部分下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 66 kDa.

## 靶标

功能	Cell surface proteoglycan that bears heparan sulfate. Inhibits the dipeptidyl peptidase activity of DPP4. May be involved in the suppression/modulation of growth in the predominantly mesodermal tissues and organs. May play a role in the modulation of IGF2 interactions with its receptor and thereby modulate its function. May regulate growth and tumor predisposition.
组织特异性	Highly expressed in lung, liver and kidney.
疾病相关	Defects in GPC3 are the cause of Simpson-Golabi-Behmel syndrome type 1 (SGBS1) [MIM:312870]; also known as Simpson dysmorphia syndrome (SDYS). SGBS is a condition characterized by pre- and postnatal overgrowth (gigantism) with visceral and skeletal anomalies.
序列相似性	Belongs to the glypican family.
细胞定位	Cell membrane and Secreted > extracellular space.

## 图片



Western blot - Anti-Glypican 3 antibody (ab101478)

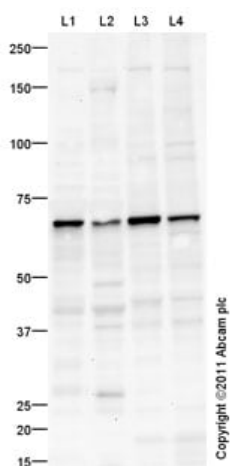
**Lane 1:** Wild-type HAP1 whole cell lysate (20 µg)

**Lane 2:** Glypican 3 knockout HAP1 whole cell lysate (20 µg)

**Lane 3:** HepG2 whole cell lysate (20 µg)

**Lanes 1 - 3:** Merged signal (red and green). Green - ab101478 observed at 66 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab101478 was shown to specifically react with Glypican 3 in wild-type HAP1 cells as signal was lost in Glypican 3 knockout cells. Wild-type and Glypican 3 knockout samples were subjected to SDS-PAGE. ab101478 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1 µg/ml and 1/20000 dilution respectively. Blots were developed 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 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Glypican 3 antibody (ab101478)

**All lanes :** Anti-Glypican 3 antibody (ab101478) at 1 µg/ml

**Lane 1 :** Human kidney tissue lysate - total protein (**ab30203**)

**Lane 2 :** Human liver tissue lysate - total protein (**ab29889**)

**Lane 3 :** HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

**Lane 4 :** HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

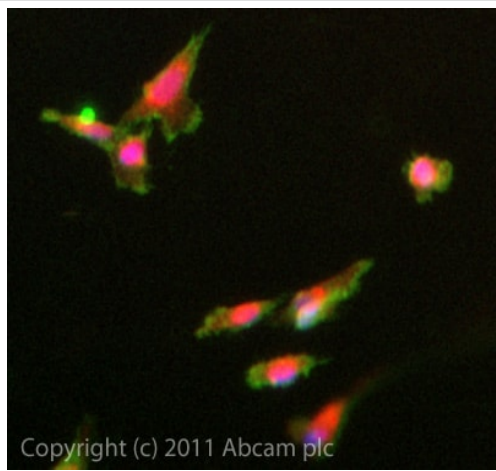
Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 66 kDa

**Observed band size:** 66 kDa

**Exposure time:** 20 minutes



Immunocytochemistry/ Immunofluorescence - Anti-Glypican 3 antibody (ab101478)

ICC/IF image of ab101478 stained SKNSH cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab101478, 5µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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

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