abcam

Product datasheet

Anti-FGF21 antibody [EPR8314(2)] - Low endotoxin, Azide free ab219368

敲除验证 重组 RabMAb

3 References 7 图像

概述

产品名称	Anti-FGF21抗体[EPR8314(2)] - Low endotoxin, Azide free
描述	兔单克隆抗体[EPR8314(2)] to FGF21 - Low endotoxin, Azide free
宿主	Rabbit
特异性	The immunogen used for this product shares 6 continuous identical amino acids with SIKE1. Cross-reactivity with this protein has not been confirmed experimentally. Expression levels of the target protein vary with sample type and some optimisation may be required (PMID: 27285327). For western blot using cell lines, it may be necessary to collect cell culture supernatant for endogenous FGF21 detection as the target protein is readily secreted (PMID: 24041694; PMID: 26691139).
经测试应用	**适用于:** IHC-P, WB **不适用于:** ICC/IF
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Recombinant human FGF21 + IgG1 fusion protein (Fc Chimera Active) (**ab108556**) can be used as a positive control in WB. WB: Human fetal liver lysate, mouse spleen, rat spleen. IHC-P: Human stomach
常规说明	ab219368 is the carrier-free version of **ab171941**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information **see here**.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Our **Low endotoxin, azide-free formats** have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.20 Constituent: PBS
无载体	**是**
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR8314(2)
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab219368**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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
WB		Use at an assay dependent concentration.

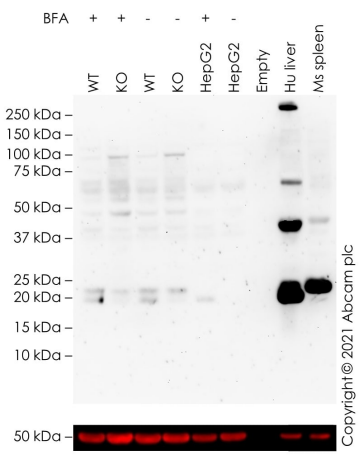
应用说明 Is unsuitable for ICC/IF.

靶标

功能 Stimulates glucose uptake in differentiated adipocytes via the induction of glucose transporter SLC2A1/GLUT1 expression (but not SLC2A4/GLUT4 expression). Activity requires the presence of KLB.

序列相似性	Belongs to the heparin-binding growth factors family.
细胞定位	Secreted.

图片



Western blot - Anti-FGF21 antibody [EPR8314(2)] - Low endotoxin, Azide free (ab219368)

All lanes : Anti-FGF21 antibody [EPR8314(2)] (**ab171941**) at 1/1000 dilution

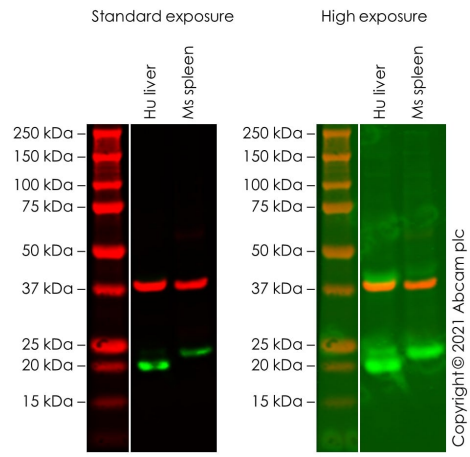
Lane 1 : Wild-type HeLa Treated BFA (5 ug/mL, 6 h) cell lysate at 20 µg
Lane 2 : FGF21 knockout HeLa Treated BFA (5 ug/mL, 6 h) cell lysate at 20 µg
Lane 3 : Wild-type HeLa Vehicle Control BFA (0 ug/mL, 6 h) cell lysate at 20 µg
Lane 4 : FGF21 knockout HeLa Vehicle Control BFA (0 ug/mL, 6 h) cell lysate at 20 µg
Lane 5 : HepG2 Treated BFA (5 ug/mL, 6 h) cell lysate at 20 µg
Lane 6 : HepG2 cell lysate at 20 µg
Lane 7 : Empty
Lane 8 : Human Liver cell lysate at 10 µg
Lane 9 : Mouse Spleen cell lysate at 10 µg

Performed under reducing conditions.

Observed band size: 21 kDa

False colour image of Western blot: Anti-FGF21 antibody [EPR8314(2)] staining at 1/1000 dilution, shown in black; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab171941** was shown to bind specifically to FGF21. A band was observed at 21 kDa in treated wild-type HeLa cell lysates with no signal observed at this size in FGF21 knockout cell line **ab265974** (knockout cell lysate **ab256915**). To generate this image, wild-type and FGF21 knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times before development and with high-

sensitivity chemiluminescence substrate and imaged with 16 minutes exposure time. Secondary antibodies used were HRP conjugated Goat anti-Rabbit (H+L) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.



Western blot - Anti-FGF21 antibody [EPR8314(2)] - Low endotoxin, Azide free (ab219368)

All lanes : Anti-FGF21 antibody [EPR8314(2)] (**ab171941**) at 1/1000 dilution

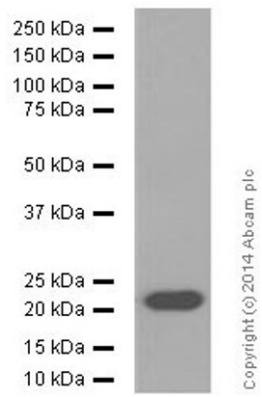
Lane 1 : Human Liver cell lysate
Lane 2 : Mouse Spleen cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Observed band size: 21 kDa

False colour image of Western blot: Anti-FGF21 antibody [EPR8314(2)] staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab171941** was shown to bind specifically to FGF21. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.



Western blot - Anti-FGF21 antibody [EPR8314(2)] - Low endotoxin, Azide free (ab219368)

Anti-FGF21 antibody [EPR8314(2)] (**ab171941**) at 1/5000 dilution + Human fetal liver tissue lysate at 20 µg

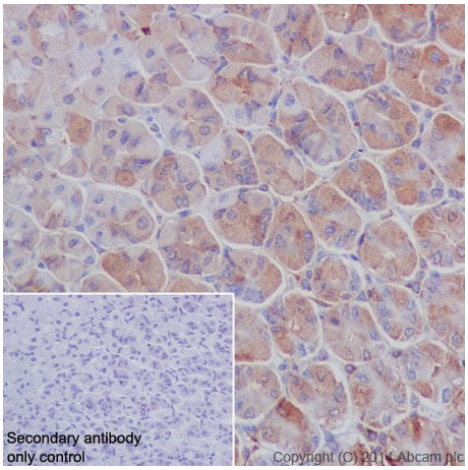
Secondary

HRP goat anti-rabbit (H+L) at 1/1000 dilution

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab171941**).

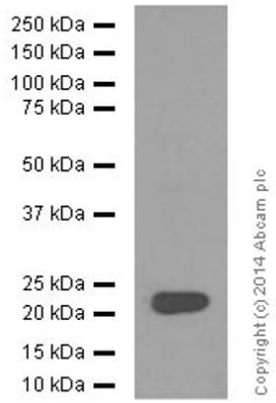
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FGF21 antibody [EPR8314(2)] - Low endotoxin, Azide free (ab219368)

Immunohistochemical staining of paraffin embedded human stomach with purified **ab171941** at a working dilution of 1/250. The secondary antibody used is **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L), at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab171941**).



Western blot - Anti-FGF21 antibody [EPR8314(2)] - Low endotoxin, Azide free (ab219368)

Anti-FGF21 antibody [EPR8314(2)] (**ab171941**) at 1/5000 dilution + Rat spleen tissue lysate at 20 µg

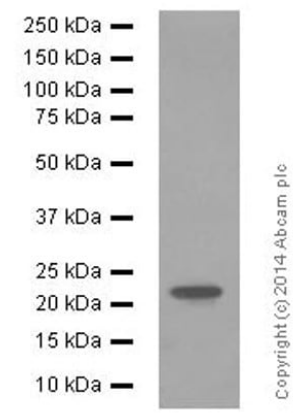
Secondary

HRP goat anti-rabbit (H+L) at 1/1000 dilution

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab171941**).

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-FGF21 antibody [EPR8314(2)] - Low endotoxin, Azide free (ab219368)

Anti-FGF21 antibody [EPR8314(2)] (**ab171941**) at 1/1000 dilution + Mouse spleen tissue lysate at 10 µg

Secondary

HRP goat anti-rabbit (H+L) at 1/1000 dilution

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab171941**).

Anti-FGF21 antibody [EPR8314(2)] - Low endotoxin, Azide free (ab219368)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors