abcam

Product datasheet

Anti-FGF21 antibody [EPR8314(2)] ab171941

KO 評価済 リコンビナント RabMAb

1 Abreviews 64 References 画像数 7

製品の概要

製品名	Anti-FGF21 antibody [EPR8314(2)]
製品の詳細	Rabbit monoclonal [EPR8314(2)] to FGF21
由来種	Rabbit
特異性	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).
アプリケーション	**適用あり:** WB, IHC-P **適用なし:** ICC/IF
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide within Human FGF21 aa 1-100. The exact sequence is proprietary. Database link: **Q9NSA1**
ポジティブ・コントロール	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
特記事項	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**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Allow to warm to room temp and agitate

	gently before aliquotting. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR8314(2)
アイソタイプ	IgG

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ab171941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検討ください。

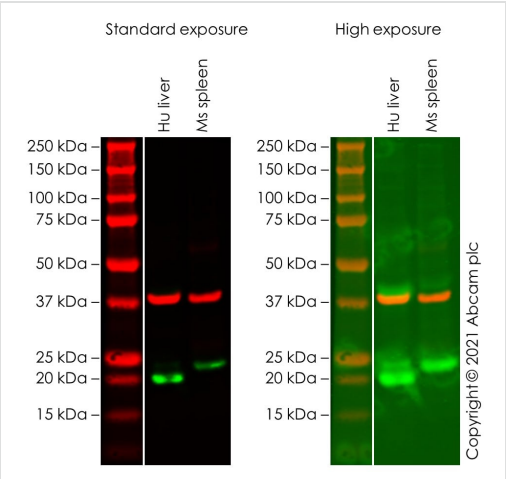
アプリケーション	Abreviews	特記事項
WB	★★★☆☆ (1)	1/1000. Predicted molecular weight: 22 kDa.
IHC-P		1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.

追加情報 Is unsuitable for ICC/IF.

ターゲット情報

機能	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.
配列類似性	Belongs to the heparin-binding growth factors family.
細胞内局在	Secreted.

画像



Western blot - Anti-FGF21 antibody [EPR8314(2)] (ab171941)

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

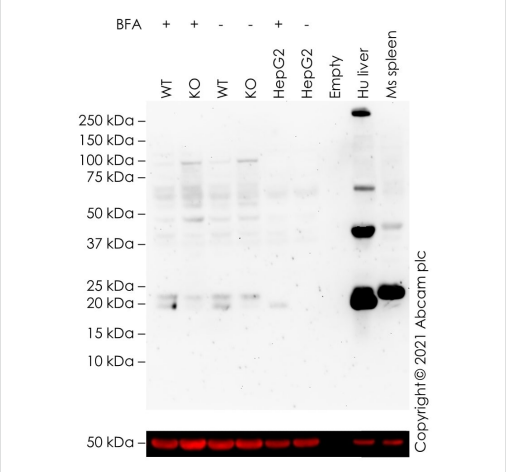
Lane 1 : Human Liver cell lysate
Lane 2 : Mouse Spleen cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 22 kDa
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)] (ab171941)

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

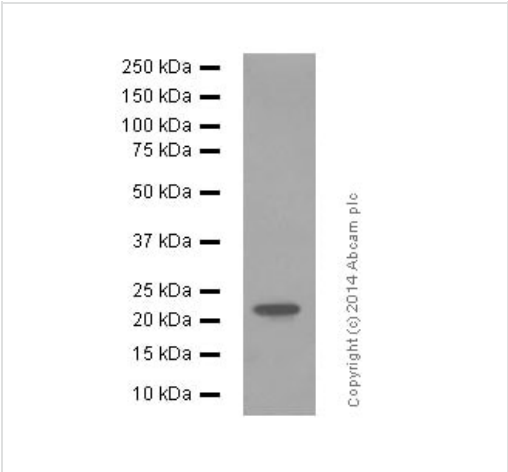
Lane 1 : Wild-type HeLa Treated BFA (5 ug/mL, 6 h) cell lysate at 20 µg
Lane 2 : FGF21 knockout HeLa Treated BFA (5 ug/mL, 6 h) cell lysate at 20 µg
Lane 3 : Wild-type HeLa Vehicle Control BFA (0 ug/mL, 6 h) cell lysate at 20 µg
Lane 4 : FGF21 knockout HeLa Vehicle Control BFA (0 ug/mL, 6 h) cell lysate 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.

Predicted band size: 22 kDa
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)] (ab171941)

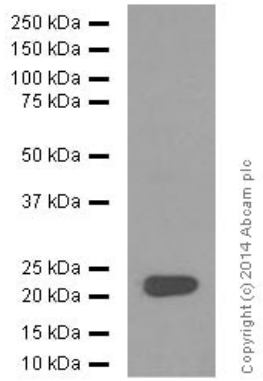
Anti-FGF21 antibody [EPR8314(2)] (ab171941) at 1/1000 dilution (purified) + Mouse spleen tissue lysate at 10 µg

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

Predicted band size: 22 kDa
Observed band size: 22 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-FGF21 antibody [EPR8314(2)] (ab171941)

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

Secondary

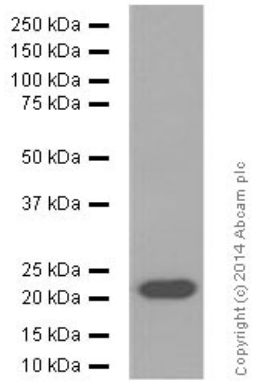
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 22 kDa

Observed band size: 22 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-FGF21 antibody [EPR8314(2)] (ab171941)

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

Secondary

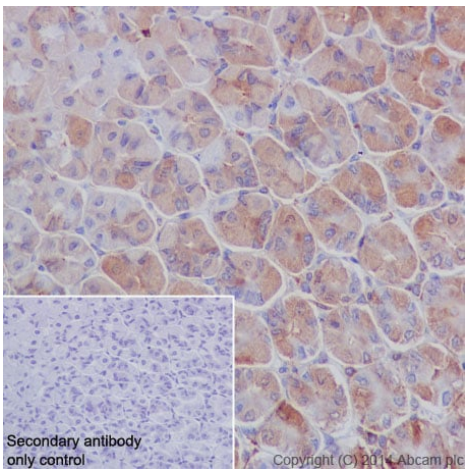
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 22 kDa

Observed band size: 22 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FGF21 antibody [EPR8314(2)] (ab171941)

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.

Anti-FGF21 antibody [EPR8314(2)] (ab171941)

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