Product datasheet

Anti-FGF21 antibody [EPR8314(2)] ab171941

Overview

Product name: Anti-FGF21 antibody [EPR8314(2)]
Description: Rabbit monoclonal [EPR8314(2)] to FGF21
Host species: Rabbit
Specificity: The immunogen used for this product shares 6 continuous identical amino acids with SIKE1. Cross-reactivity with this protein has not been confirmed experimentally

Tested applications: Suitable for: WB, IHC-P
Unsuitable for: ICC/IF

Species reactivity: Reacts with: Mouse, Rat, Human

Immunogen: Synthetic peptide within Human FGF21 aa 1-100. The exact sequence is proprietary.
Database link: Q9NSA1

Positive control: Recombinant human FGF21 + IgG1 fusion protein (Fc Chimera Active) (ab108556) can be used as a positive control in WB. Human fetal liver lysate, HeLa cell lysate, A549 cell lysate, Human lipoma tissue, Human thyroid carcinoma tissue.

General notes:

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

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid
Storage instructions: 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.
Storage buffer: pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 0.05% BSA, 40% Glycerol

Purity: Protein A purified
Clonality: Monoclonal
Clone number: EPR8314(2)
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab171941 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<td>WB</td>
<td>1/1000. Predicted molecular weight: 22 kDa.</td>
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<tr>
<td>IHC-P</td>
<td>1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See <a href="#">IHC antigen retrieval protocols</a>.</td>
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Application notes: Is unsuitable for ICC/IF.

Target

Function: 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.
Sequence similarities: Belongs to the heparin-binding growth factors family.
Cellular localization: Secreted.
Western blot - 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) 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) 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
Anti-FGF21 antibody [EPR8314(2)] (ab171941) at 1/1000 dilution (purified) + HeLa cell 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

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 counterstained with hematoxylin. Antigen retrieval was performed 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.
Western blot - Anti-FGF21 antibody [EPR8314(2)] (ab171941)

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

Lane 1: Human fetal liver tissue lysate
Lane 2: Hela cell line lysate
Lane 3: A549 cell line lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Predicted band size: 22 kDa

Immunohistochemical analysis of paraffin embedded Human lipoma tissue labeling FGF21 with unpurified ab171941 at 1/100.

Immunohistochemical analysis of paraffin embedded Human thyroid carcinoma tissue labeling FGF21 with unpurified ab171941 at 1/100.

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