Product Datasheet

Anti-IGFBP7 antibody ab74169

Overview

Product name: Anti-IGFBP7 antibody
Description: Rabbit polyclonal to IGFBP7
Host species: Rabbit
Tested applications: Suitable for: ICC/IF, WB, IHC-P, IHC-Fr
Species reactivity: Reacts with: Mouse, Rat, Human
Predicted to work with: Cow, Dog, Pig, Chimpanzee, Rhesus monkey, Rainbow trout
Immunogen: Synthetic peptide corresponding to Human IGFBP7 aa 200 to the C-terminus conjugated to keyhole limpet haemocyanin. (Peptide available as ab85821)
Positive control: Recombinant Human IGFBP7 protein (ab50195) can be used as a positive control in WB. IHC-P: FFPE human pancreas.

Properties

Form: Liquid
Storage instructions: 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.
Storage buffer: 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.

Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab74169 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 5 - 10 µg/ml.</td>
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<tr>
<td>WB</td>
<td>🌟🌟🌟🌟🌟</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 35 kDa (predicted molecular weight: 29 kDa).</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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<tr>
<td>IHC-Fr</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 21873981</td>
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### Target

#### Function
Binds IGF-I and IGF-II with a relatively low affinity. Stimulates prostacyclin (PGI2) production. Stimulates cell adhesion.

#### Sequence similarities
Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 IGFBP N-terminal domain. Contains 1 Kazal-like domain.

#### Post-translational modifications
N-glycosylated.

#### Cellular localization
Secreted.

### Images

IHC image of IGFBP7 staining in a formalin fixed, paraffin embedded normal human pancreas tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab74169 at 1 µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre
Western blot - Anti-IGFBP7 antibody (ab74169)

Anti-IGFBP7 antibody (ab74169) at 1 µg/ml + Recombinant Human IGFBP7 protein (ab50195) at 0.01 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 29 kDa
Observed band size: 29 kDa

Exposure time: 30 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes.

The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab74169 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.

Immunocytochemistry/ Immunofluorescence - Anti-IGFBP7 antibody (ab74169)

ICC/IF image of ab74169 stained HeLa cells. The cells were 100% methanol fixed (5 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 (ab74169, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 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. This antibody also gave a positive result in 100% methanol fixed (5 min) Hek293, HepG2 and MCF7 cells at 1µg/ml, and in 4% PFA fixed (10 min) HeLa, Hek293, HepG2 and MCF7 cells at 1µg/ml.

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