Overview

Product name: Anti-FXR1 antibody
Description: Goat polyclonal to FXR1
Host species: Goat
Specificity: This antibody is expected to recognise all reported isoforms
Tested applications: Suitable for: IHC-P, ICC/IF, WB, ELISA
Species reactivity: Reacts with: Mouse, Human
Predicted to work with: Rat, Dog

Immunogen: Synthetic peptide:
RIEGDNENKLPRED,
 corresponding to amino acids 317/330 of Human FXR1

Positive control: NIH/3T3 cell lysate

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.02% Sodium Azide
Constituents: 0.5% BSA, Tris buffered saline, pH 7.3

Purity: Immunogen affinity purified
Purification notes: Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab51970 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
RNA-binding protein required for embryonic and postnatal development of muscle tissue. May regulate intracellular transport and local translation of certain mRNAs.

Tissue specificity
Expressed in all tissues examined including heart, brain, kidney and testis.

Sequence similarities
Belongs to the FMR1 family. Contains 2 KH domains.

Post-translational modifications
Arg-445 is dimethylated, probably to asymmetric dimethylarginine.

Cellular localization
Cytoplasm.

Target

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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
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<tr>
<td>WB</td>
<td>★★★★☆</td>
<td>Use a concentration of 0.1 - 0.3 µg/ml. Detects a band of approximately 80 kDa (predicted molecular weight: 69 kDa).</td>
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<tr>
<td>ELISA</td>
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Images

Western blot - Anti-FXR1 antibody (ab51970)

- Anti-FXR1 antibody (ab51970) at 0.2 µg/ml + NIH/3T3 cell lysate in RIPA buffer at 35 µg

Predicted band size: 69 kDa

Observed band size: 80 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.
Immunocytochemistry/ Immunofluorescence - Anti-FXR1 antibody (ab51970)

ICC/IF image of ab51970 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal donkey 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 (ab51970, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 donkey anti-goat 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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FXR1 antibody (ab51970)

IHC image of ab51970 staining in human normal skin formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. 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 ab51970, 10µg/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.

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