Product datasheet

Anti-Hepatitis B Virus X antigen antibody [3F6-G10] ab235

Overview

Product name: Anti-Hepatitis B Virus X antigen antibody [3F6-G10]
Description: Mouse monoclonal [3F6-G10] to Hepatitis B Virus X antigen
Host species: Mouse
Specificity: HB-X antigen (17 kD). We have received mixed reports regarding how ab235 works in Western blot, and we are not able to guarantee this antibody in WB.
Tested applications: Suitable for: ELISA, IHC-P, IHC-Fr
Species reactivity: Reacts with: Hepatitis B virus
Immunogen: Fusion protein corresponding to Hepatitis B Virus X antigen. HB-Xag-Protein A Fusion protein. Spleen cells from immunised BALB/c mice were fused with cells of the Sp-2/0-Ag14 mouse myeloma cell line.

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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: Preservative: 0.09% Sodium azide Constituent: 0.1% BSA
Purity: Immunogen affinity purified
Purification notes: Purified IgG prepared by affinity chromatography on protein G from tissue culture supernatant.
Clonality: Monoclonal
Clone number: 3F6-G10
Myeloma: unknown
Isotype: IgG2a
Light chain type: unknown

Applications

The Abpromise guarantee

Our Abpromise guarantee covers the use of ab235 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>ELISA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>1/100. This antibody may not require protein digestion pre-treatment or antigen retrieval on paraffin sections.</td>
</tr>
<tr>
<td>IHC-Fr</td>
<td></td>
<td>1/100.</td>
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Target

Relevance

Hepatitis B virus X protein (HBx) is a 17 kD transcriptional coactivator that plays a significant role in the regulation of genes involved in inflammation and cell survival. It regulates many transcription factors including nuclear factor kappa B (NF-kappaB) and plays a key role in hepatocarcinogenesis. HBx facilitates the binding of cAMP response element binding protein (CREB) to its responsive element. HBx stabilizes the cellular coactivator ASC-2 through direct protein-protein interaction, affecting the regulation of genes actively transcribed in liver cancer cells. HBx transactivates both JNK and MAPK signal transduction pathways in association with the mobilization of cytosolic Ca2+. The communication between HBx and general transcription factor TFIIIB is also one of the mechanisms which account for its transcriptional transactivation. HBx decreased the expression of PTEN a known tumor suppressor and a negative regulator of phosphatidylinositol 3'-kinase/AKT and HBx decreased the expression of PTEN in HBx-transfected cells. The etiology of hepatocellular carcinoma (HCC) is involved with hepatitis B virus (HBV) infection and HBx in particular plays a role in the development of HBV-related HCC. The persistence of HBx is important to the pathogenesis of early HCC and HBx expression in the liver during chronic HBV infection may be an important prognostic marker for the development of HCC.

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
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- 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
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