

Product datasheet

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

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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/O-Ag14 mouse myeloma cell line.
General notes	<p>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.</p> <p>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</p>

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.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
IHC-P		1/100. This antibody may not require protein digestion pre-treatment or antigen retrieval on paraffin sections.
IHC-Fr		1/100.

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 TFIIB 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.

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