abcam

Product datasheet

Anti-Hepatitis B Virus pre S2 Antigen antibody [S26] ab8635

2 Abreviews 5 References 1 Image

Overview

Product name	Anti-Hepatitis B Virus pre S2 Antigen antibody [S26]
Description	Mouse monoclonal [S26] to Hepatitis B Virus pre S2 Antigen
Host species	Mouse
Specificity	This antibody reacts with HBV Large and Middle Surface Antigen but not small forms (both glycosylated and non glycosylated species).
Tested applications	**Suitable for:** ELISA, IHC-FoFr, IHC-Fr, Immunomicroscopy, IP, IHC-P, WB
Species reactivity	**Reacts with:** Hepatitis B virus
Immunogen	Tissue, cells or virus corresponding to Hepatitis B virus Hepatitis B Virus pre S2 Antigen. Purified serum HBV surface antigen Database link: **A0FDJ9**
Epitope	aa positions 131-139 (adw nomenclature)
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.
Clonality	Monoclonal
Clone number	S26
Myeloma	Sp2/0
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab8635 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

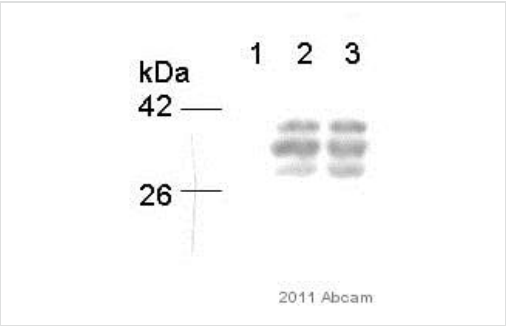
Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
IHC-FoFr		1/100.
IHC-Fr		1/100.
Immunomicroscopy		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
IHC-P		1/100.
WB	★★★★☆ (2)	1/1000.

Target

Relevance The human hepatitis B virus (HBV) is a DNA virus that causes chronic infections that frequently lead to the development of cirrhosis and cellular hepatocellular carcinoma. The HBsAg (surface antigen) gene is one long open reading frame but contains three in frame "start" (ATG) codons that divide the gene into three sections, pre-S1, pre-S2, and S. Because of the multiple start codons, polypeptides of three different sizes called large, middle, and small (pre-S1 + pre-S2 + S, pre-S2 + S, or S) are produced. The preS2 domain is the minimal functional unit of transcription activators that are encoded by the Hepatitis B virus (HBV) surface (S) gene. It is present in more than one-third of the HBV-integrates in HBV induced hepatocarcinoma (HCC). Pre-S2 is a diagnostically important surface antigen of human hepatitis B virus. The PreS domain (S1 + S2) of Hepatitis B virus (HBV) surface antigen may be a good candidate for an effective vaccine as it activates both B and T cells besides binding to hepatocytes.

Cellular localization Virion membrane (By similarity).

Images



Western blot - Anti-Hepatitis B Virus pre S2 Antigen antibody [S26] (ab8635)

Image courtesy of Alina Macovei by Abreview.

All lanes : Anti-Hepatitis B Virus pre S2 Antigen antibody [S26] (ab8635) at 1/1000 dilution

Lane 1 : Whole cell lysate prepared from HEK cells

Lanes 2-3 : Whole cell lysate prepared from HEK cells transfected with pCI M

Lysates/proteins at 50 µg per lane.

Secondary

All lanes : Sheep anti-mouse HRP conjugated polyclonal at 1/1000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Observed band size: 33,36,39 kDa

Exposure time: 10 minutes

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