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

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
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.

**Applications**

The **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.

<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>
</tr>
<tr>
<td>IHC-FoFr</td>
<td></td>
<td>1/100.</td>
</tr>
<tr>
<td>IHC-Fr</td>
<td></td>
<td>1/100.</td>
</tr>
<tr>
<td>Immunomicroscopy</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>IP</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/100.</td>
</tr>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐ 🌟 (2)</td>
<td>1/1000.</td>
</tr>
</tbody>
</table>

**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).
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 pCIM

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

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
- Valid for 12 months from date of delivery
- 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

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors