### 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, ICC/IF  

**Species reactivity**  
Reacts with: Hepatitis B virus  
**Immunogen**  
Purified serum HBV surface antigen  
**Epitope**  
aa positions 131-139 (adw nomenclature)

### 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

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.

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### Application notes

For western blotting use at 1:1000  
For immunohistochemistry use at 1:100

### 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
**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

why is the actual band size different from the predicted?

**Exposure time**: 10 minutes

Immunofluorescence analysis of mutant pHBV-env–transfected Huh-7 cells, staining Hepatitis B Virus pre S2 Antigen with ab8635.

Cells were fixed with 4% paraformaldehyde and permeabilized with saponin 0.1%. Cells were incubated with primary antibody (1/500) for 2 hours at room temperature. An Alexa Fluor®555–conjugated goat anti-mouse IgG (1/1000) was used as the secondary antibody.

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**Please note**: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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