# Product datasheet

## Anti-Hepatitis B Virus Surface Antigen (Ad/Ay) antibody ab9193

**Overview**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Hepatitis B Virus Surface Antigen (Ad/Ay) antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Horse polyclonal to Hepatitis B Virus Surface Antigen (Ad/Ay)</td>
</tr>
<tr>
<td>Host species</td>
<td>Horse</td>
</tr>
<tr>
<td>Specificity</td>
<td>This antibody is specific for Hepatitis B surface antigen</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: ELISA</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Hepatitis B virus</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Immunization of horses with highly purified Ad/Ay antigen.</td>
</tr>
<tr>
<td>General notes</td>
<td>Reproducibility is key to advancing scientific discovery and accelerating scientists’ next breakthrough. Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility. We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee. In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for. We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee. Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee. 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, as well as customer reviews and Q&amp;As.</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
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</thead>
</table>

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**1 Abreviews  17 References**
Storage instructions
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer
pH: 7.20
Constituents: 0.0268% PBS, 0.87% Sodium chloride

Purity
Affinity purified

Purification notes
This antibody was immunoaffinity purified from non-recombinant hepatitis antigens.

Clonality
Polyclonal

Isotype
IgG

Applications
Our Abpromise guarantee covers the use of ab9193 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>
</tbody>
</table>

Target

Relevance
Hepatitis B Virus (HBV) infection induces a disease state characterised by liver damage, inflammation and viral persistence. Infection also increases the risk of hepatocellular carcinoma. HBV belongs to the Hepadnaviridae family of viruses. Its genome consists of partially double stranded circular DNA. The DNA is enclosed in a nucleocapsid, or core antigen (HBcAg), which is surrounded by a spherical envelope (surface antigen or HBsAg). The core antigen shares its sequences with the e antigen (HBeAg) but no cross reactivity between the two proteins has been observed. The HBV genome also encodes a DNA polymerase that also acts as a reverse transcriptase. Hepatitis B infection is normally diagnosed from serological tests that detect HBsAg but as the disease progresses this antigen may no longer be present in the blood and tests for HBcAg are used. If HBsAg can be detected in the blood for longer than six months, chronic hepatitis B is diagnosed. The antigenic determinant of the protein moiety of the HBsAg determines specific characteristics of different serotypes and provides the basis of immunodetection. HBsAg has antigenic heterogeneity, specifically, two pairs of sub specific determinants, d/y and w/r allow the following combinations: adw, ayw, adr, ayr.

Cellular localization
Virion membrane

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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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