Product datasheet

Anti-Hepatitis B Virus Surface Antigen (Ad/Ay) antibody [86C] ab20758

Overview

Product name                      Anti-Hepatitis B Virus Surface Antigen (Ad/Ay) antibody [86C]
Description                      Mouse monoclonal [86C] to Hepatitis B Virus Surface Antigen (Ad/Ay)
Host species                     Mouse
Tested applications             Suitable for: ELISA, WB
Species reactivity              Reacts with: Hepatitis B virus
Immunogen                       Native HBsAg (ad/ay) protein
Positive control                HBsAg subtype adw and recombinant HBsAg subtype ayw.
General notes                   Abcam is committed to meeting high quality standards of ethical manufacturing and has decided to discontinue this product by June 2020 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause. We suggest ab9193 or ab68519 as possible replacements.

Properties

Form                              Liquid
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                   Constituent: PBS
Purity                           Ascites
Purification notes               Purified from ascites.
Clonality                        Monoclonal
Clone number                     86C
Myeloma                          unknown
Isotype                          IgG1
Light chain type                 unknown

Applications
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

Target

Our Abpromise guarantee covers the use of ab20758 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>
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</thead>
<tbody>
<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent dilution.</td>
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<tr>
<td>WB</td>
<td>1/200</td>
<td>Predicted molecular weight: 25 kDa. See PubMed 19208682. We recommend blocking with milk and incubating ab20758 overnight.</td>
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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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