Product datasheet

Anti-Hepatitis B Virus Core Antigen antibody [14E11] ab8638

5 References

Overview

Product name  Anti-Hepatitis B Virus Core Antigen antibody [14E11]
Description  Mouse monoclonal [14E11] to Hepatitis B Virus Core Antigen
Host species  Mouse
Specificity  ab8638 was raised against serotype ayw but will work with all other genotypes.
Tested applications  Suitable for: ELISA, IHC-FoFr, IHC-Fr, ICC/IF, IP, IHC-P, WB
Species reactivity  Reacts with: Hepatitis B virus
Immunogen  Purified Denatured Hepatitis B Core Antigen
Epitope  135-141aa (PNAPILS)

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.
Storage buffer  Bioreactor harvest, serum-free medium, no protein added
Clonality  Monoclonal
Clone number  14E11
Myeloma  Sp2/0
Isotype  IgG2b
Light chain type  kappa

Applications

Our Abpromise guarantee covers the use of ab8638 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Hepatitis B Virus Core Antigen (HBcAg) is part of the infectious virion containing an inner "core particle" enclosing the viral genome. The icosahedral core particle contains 180 or 240 copies of the core protein. HBcAg is one of the three major clinical antigens of hepatitis B virus but disappears early in the course of infection. The hepatitis B virus core antigen (HBcAg) is a highly immunogenic subviral particle and functions as both a T-cell-dependent and a T-cell-independent antigen. Therefore, HBcAg may be a promising candidate target for therapeutic vaccine control of chronic HBV infection.

**Cellular localization**
Capsid protein: Virion. Host cytoplasm, hepatocyte nucleus.

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### Application

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELISA</td>
<td>Use at an assay dependent concentration.</td>
<td></td>
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<tr>
<td>IHC-FoFr</td>
<td>1/100.</td>
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<tr>
<td>IHC-Fr</td>
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<tr>
<td>ICC/IF</td>
<td>Use at an assay dependent concentration.</td>
<td></td>
</tr>
<tr>
<td>IP</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>IHC-P</td>
<td>1/100.</td>
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<tr>
<td>WB</td>
<td>1/1000.</td>
<td></td>
</tr>
</tbody>
</table>

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**Target**

**Relevance**
Hepatitis B Virus Core Antigen (HBcAg) is part of the infectious virion containing an inner "core particle" enclosing the viral genome. The icosahedral core particle contains 180 or 240 copies of the core protein. HBcAg is one of the three major clinical antigens of hepatitis B virus but disappears early in the course of infection. The hepatitis B virus core antigen (HBcAg) is a highly immunogenic subviral particle and functions as both a T-cell-dependent and a T-cell-independent antigen. Therefore, HBcAg may be a promising candidate target for therapeutic vaccine control of chronic HBV infection.

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Capsid protein: Virion. Host cytoplasm, hepatocyte nucleus.

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