Product datasheet

Anti-Hepatitis B Virus Core Antigen antibody [C1] ab8637

Overview

Product name: Anti-Hepatitis B Virus Core Antigen antibody [C1]
Description: Mouse monoclonal [C1] to Hepatitis B Virus Core Antigen
Host species: Mouse
Specificity: This antibody reacts with HBV Core Antigen (Major antigenic determinant, c1). Ab8637 should recognize both the precore protein and core protein. It will not recognize the preprotein under native conditions, because this protein can not self assemble into particles.

Ab8637 was raised against serotype ayw but will work with all other genotypes.

Tested applications: Suitable for: ELISA, IHC-Fr, IP, WB, ICC/IF
Species reactivity: Reacts with: Hepatitis B virus
Immunogen: Purified Hepatitis B Core Antigen
Epitope: Around aa positions 70-80, major, or "c1" determinant

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: Ascitic fluid
Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: C1
Myeloma: Sp2/0
Isotype: IgG2a
Light chain type: kappa

Applications

Our Abpromise guarantee covers the use of ab8637 in the following tested applications.
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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<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>IHC-Fr</td>
<td>1/100.</td>
<td></td>
</tr>
<tr>
<td>IP</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>WB</td>
<td>1/1000. We recommend boiling the sample for 10 minutes before loading.</td>
<td></td>
</tr>
<tr>
<td>ICC/IF</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use at an assay dependent concentration.</td>
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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.

**Images**

Immunoblotting analysis of the recombinant HBcAg antigen using ab8637. E.coli lysates were separated using 12% SDS-PAGE electrophoresis, immunoblotted and developed with the Amersham ECL Detection Kit. Samples: 1. Negative control; 2. HBcAg(full length, 1-183)

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Western blot - Anti-Hepatitis B Virus Core Antigen antibody [C1] (ab8637)

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