

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

★★★★★ [1 Abreviews](#) [17 References](#) [1 Image](#)

### Overview

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|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Anti-Hepatitis B Virus Core Antigen antibody [C1]  |
| <b>Description</b>         | Mouse monoclonal [C1] to Hepatitis B Virus Core Antigen  |
| <b>Host species</b>        | Mouse  |
| <b>Specificity</b>         | <p>This antibody reacts with HBV Core Antigen (Major antigenic determinant, c1). Ab8637 should recognize both the precoreprotein and core protein. It will not recognize the precorprotein under native conditions, because this protein can not self assemble into particles.</p> <p>Ab8637 was raised against serotype ayw but will work with all other genotypes.</p>   |
| <b>Tested applications</b> | <b>Suitable for:</b> ELISA, IP, WB, ICC/IF   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Hepatitis B virus  |
| <b>Immunogen</b>           | Tissue, cells or virus corresponding to Hepatitis B virus Hepatitis B Virus Core Antigen. Purified Hepatitis B Core Antigen  |
| <b>Epitope</b>             | Around aa positions 70-80, major, or "c1" determinant  |
| <b>General notes</b>       | <p>This product was raised against native assembled HBV core (HBV capsid, or particulated core). For denaturing western blots and denaturing Immunofluorescence we would recommend one of the following:</p> <p>Anti-Hepatitis B Virus Core Antigen antibody [10E11] (<a href="#">ab8639</a>)</p> <p>Anti-Hepatitis B Virus Core Antigen antibody [14E11] (<a href="#">ab8638</a>)</p> <p>These products are raised to the same, but denatured, HBcAg protein sequence thus have more robust activity.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&amp;As</p> |

## Properties

|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Liquid   |
| <b>Storage instructions</b> | 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. |
| <b>Storage buffer</b>       | pH: 7.4<br>Constituents: 0.1% BSA, 99% PBS   |
| <b>Purity</b>               | Tissue culture supernatant   |
| <b>Clonality</b>            | Monoclonal   |
| <b>Clone number</b>         | C1   |
| <b>Myeloma</b>              | Sp2/0  |
| <b>Isotype</b>              | IgG2a  |
| <b>Light chain type</b>     | kappa  |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab8637 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

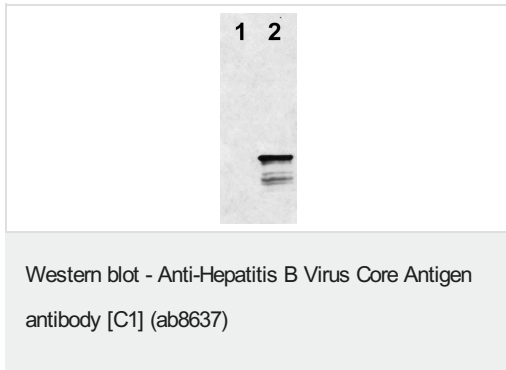
| Application   | Abreviews | Notes   |
|---------------|-----------|---|
| <b>ELISA</b>  |           | Use at an assay dependent concentration.  |
| <b>IP</b>     |           | Use at an assay dependent concentration.  |
| <b>WB</b>     |           | 1/1000.<br>We recommend boiling (100°C) the sample for 10 minutes immediately before loading and using a 2x or 4x Laemmli sample buffer (contains SDS).<br>A 2X concentrated Laemmli buffer is: 4% SDS, 10% beta-mercaptoethanol, 20% glycerol, 0.1M Tris pH 6.8, and 0.005% of bromophenol blue. |
| <b>ICC/IF</b> | ★★★★★ (1) | Use at an assay dependent concentration.  |

## 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.

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

## Images



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

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

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