

Product datasheet

Recombinant Hepatitis B Virus Core Antigen protein  
ab49014

1 References

Description

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<b>Product name</b>	Recombinant Hepatitis B Virus Core Antigen protein
<b>Biological activity</b>	Reacts strongly with human HBV positive serum.
<b>Purity</b>	> 95 % SDS-PAGE.
<b>Expression system</b>	Escherichia coli
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Amino acids</b>	1 to 144
<b>Additional sequence information</b>	Deleted DNA binding domain. Fully competent for self-assembly.

Specifications

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Our [Abpromise guarantee](#) covers the use of **ab49014** in the following tested applications.

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

<b>Applications</b>	Western blot
	ELISA

<b>Form</b>	Liquid
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**Additional notes**

During infection, the C gene of HBV often displays genetic deletions within the tip of the protruding spikes of HBcAg, which are known to contain the major site for antibody binding . These have been referred to as core internal deletion variants, and they often appear in end stage liver disease. Depending on the nature of the deletion, they may still form functional capsids, Reacts strongly with human HBV positive serum.

Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. pH: 7.20
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Constituents: 0.02% PBS, 50% Glycerol (glycerin, glycerine), 0.435% Sodium chloride

## General Info

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### 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.

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

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