

Product datasheet

Recombinant Hepatitis B Virus Core Antigen protein ab49014

2 References

Description

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

Specifications

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.

Applications	Western blot ELISA
Form	Liquid
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

Stability and Storage	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

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.

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