

Product datasheet

Recombinant Hepatitis B Virus Core Antigen protein
ab49013

1 References

Description

Product name	Recombinant Hepatitis B Virus Core Antigen protein	
Biological activity	Reacts strongly with human HBV positive serum.	
Purity	> 95 % SDS-PAGE. Purification method is proprietary.	
Expression system	Escherichia coli	
Accession	CAB41699.1	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Sequence	MDIDPYKEFG ATVELLSFLP SDFFPSVRDL LDNASALYRE ALESPEHCSP HHTALRQAIL CWGELMLTAT WGGNLEDPI SRDLVVSYN TNMGLKFRQL LWFHISCLTF GRETVIEYLV SFGVWIRTPP AYRPPNAPIL STLPETTVVR RRRGRSPRRRT PSPRRRRRSQS PRRRRRSQSRE SQC	
Predicted molecular weight	18 kDa	
Amino acids	1 to 183	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab49013** in the following tested applications.

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

Applications	SDS-PAGE ELISA Western blot
Form	Liquid
Additional notes	Reacts strongly with human HBV positive serum.

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.

pH: 7.20

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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