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 precoreprotein and core protein. It will not recognize the precorprotein 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.
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-PAA electrophoresis, immunoblotted and developed with the Amersham ECL Detection Kit. Samples: 1. Negative control; 2. HBcAg(full length, 1-183)

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