

# Hepatitis B Virus Core Antibody (HBcAb)

Item Number: HBcAb

## Introduction

Discover the significance of Hepatitis B core antibody (HBcAb) testing. Early marker for HBV infection, including IgM, IgA and IgG. Understand its role in diagnosis today.

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Feature	Description
Product Name	Hepatitis B virus core antibody (HBcAb) / Hep B cAg Antibody
Alternate Product Name	HBcAG
Classification	Primary Antibody
Clonality	Monoclonal Antibody
Antibody Isotype	IgG1 kappa light chain
Epitope Target	HBcAg
Epitope Species	Hepatitis B
Product Reactivity/Detection	An epitope corresponding to amino acids 8-20 of denatured core antigen
Species Reactivity/Detection	Hep B, Woodchuck hepatitis
Applications	WB, IP, IF, FCM, ELISA
Vialing Information	Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin
Description	Mouse monoclonal IgG1 kappa light chain antibody that can detect Hep B cAg in Hepatitis B and Woodchuck hepatitis. Available in unconjugated and conjugated forms (Agarose, HRP, PE, FITC, and Alexa Fluor® conjugates).
Target	HBcAb (also known as anti-HBc)

Condition	Description
Storage	2~8°C, protected from light, unopened.

Indicator	Requirements
Appearance	Liquid components should be clear and transparent. Kit components should be complete and intact, without leakage. Packaging labels should be clear and without damage.
Fill Volume	Each component should not be less than the labeled value.
Positive Reference Compliance Rate	When testing 15 HBcAb national positive reference materials (or enterprise positive reference materials standardized by national positive reference materials), the positive reference compliance rate (+/+) shall not be less than 14/15.
Negative Reference Compliance Rate	When testing 15 HBcAb national negative reference materials (or enterprise negative reference materials standardized by national negative reference materials), the negative reference compliance rate (-/-) shall be 15/15.
Minimum Detection Limit	When measuring with HBcAb national minimum detection limit reference material (or enterprise minimum detection limit reference material standardized by national minimum detection limit reference material), the reactivity of the 1# reference material detection result shall not be less than 1:128, the reactivity of the 2# reference material detection result shall not be less than 1:128, and the reactivity of the 3# reference material detection result shall not be less than 1:256.
Repeatability	When testing with HBcAb national precision reference material (or enterprise precision reference material standardized by national precision reference material), repeatedly measure 10 times, and its coefficient of variation (CV) should be no more than 10%.
Batch-to-Batch Difference	When testing three batches of kits with HBcAb national precision reference material (or enterprise precision reference material standardized by national precision reference material), the inter-batch coefficient of variation (CV) should be no more than 15%.
Calibrator Accuracy	The relative deviation of the calibrator should be no more than ±10%.
Calibrator Uniformity	The uniformity of the calibrator should be no more than 10%.

Feature	Description
Condition	Description
Indicator	Requirements

Stability      When the kit is stored at 2~8°C protected from light in an unopened state, take the product within 6 months after the expiration date and test according to 2.1~2.5, 2.7 and 2.8, and the results should meet the requirements of relevant items.