

**Rabbit Anti-HBcAg Polyclonal: RC0157, RC0157RTU7**

**Intended Use:** For Research Use Only

**Description:** Hepatitis B virus is spherical in shape with a diameter of 42 nm. It contains a 27 nm partially double stranded DNA core enclosed within a lipoprotein coat. The antigenic activity of the nucleocapsid core is designated as hepatitis B core antigen. The antigens in the outer surface are called as hepatitis B virus surface antigens. Core antigens are localized within the nuclei whereas the surface antigens are present in the cytoplasm of the infected cells. Antibodies to surface antigens appear in circulation at an early stage of infection whereas the antibodies to the core antigens are detected after several weeks.

**Specifications:**

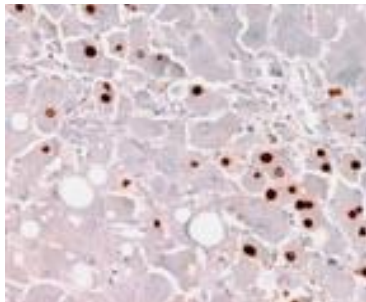
Clone: Polyclonal  
Source: Rabbit  
Isotype: IgG  
Reactivity: Human  
Immunogen: Purified hepatitis B core antigen  
Localization: Nucleus  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC, ICC  
Package:

Description	Catalog No.	Size
HBcAg Concentrated	RC0157	1 ml
HBcAg Prediluted	RC0157RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: HBV infected liver  
Concentrated Dilution: 25-100  
Pretreatment: None  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human liver infected with hepatitis B virus stained with anti-HBcAg using DAB

**References:**

1. Enhanced immunity and antiviral effects of an HBV DNA vaccine delivered by a DC-targeting protein. Wang Y, et al. J Viral Hepat 23:798-804, 2016.
2. Characterization of the pleiotropic effects of the genotype g-specific 36-nucleotide insertion in the context of other hepatitis B virus genotypes. Gutelius D, et al. J Virol 85:13278-89, 2011.
3. Chimeric constructs between two hepatitis B virus genomes confirm transcriptional impact of core promoter mutations and reveal multiple effects of core gene mutations. Tsai A, et al. Virology 387:364-72, 2009.