

Hepatitis B Core (HBc) Immunostain, Technical Component Only

# Overview

#### Useful For

Aiding in the identification of hepatitis B infection (chronic active state)

#### **Reflex Tests**

Test Id	Reporting Name	Available Separately	Always Performed
IHTOI	IHC Initial, Tech Only	No	No
IHTOA	IHC Additional, Tech Only	No	No

### **Testing Algorithm**

For the initial technical component only immunohistochemical (IHC) stain performed, the appropriate bill-only test ID will be reflexed and charged (IHTOI). For each additional technical component only IHC stain performed, an additional bill-only test ID will be reflexed and charged (IHTOA).

#### Method Name

Immunohistochemistry (IHC)

### NY State Available

Yes

# Specimen

Specimen Type

TECHONLY

### **Ordering Guidance**

This test includes only technical performance of the stain (no pathologist interpretation is performed). If diagnostic consultation by a pathologist is required order PATHC / Pathology Consultation.

### **Shipping Instructions**

Attach the green "Attention Pathology" address label (T498) and the pink Immunostain Technical Only label included in the kit to the outside of the transport container.

### **Specimen Required**

<u>Specimen Type:</u> Tissue **Supplies:** Immunostain Technical Only Envelope (T693) **Container/Tube:** Immunostain Technical Only Envelope **Preferred:** 



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-Formalin-fixed, paraffin-embedded tissue block

OR

-2 Unstained, positively charged glass slides (25- x 75- x 1-mm) per test ordered; sections 4-microns thick **Acceptable**: None

# **Digital Image Access**

1. Information on accessing digital images of immunohistochemical (IHC) stains and the manual requisition form can be accessed through this website: <u>https://news.mayocliniclabs.com/pathology/digital-imaging/</u>

2. Clients ordering stains using a manual requisition form will not have access to digital images.

3. Clients wishing to access digital images must place the order for IHC stains electronically. Information regarding digital imaging can be accessed through this website: <u>https://news.mayocliniclabs.com/pathology/digital-imaging/#section3</u>

# Forms

If not ordering electronically, complete, print, and send a <u>Immunohistochemical (IHC)/In Situ Hybridization (ISH) Stains</u> <u>Request</u> (T763) with the specimen.

# Reject Due To

Wet/frozen	Reject
tissue	
Cytology	
smears	
Nonformalin	
fixed tissue	
Nonparaffin	
embedded	
tissue	
Noncharged	
slides	
ProbeOn slides	
Snowcoat	
slides	

# **Specimen Stability Information**

Specimen Type	Temperature	Time	Special Container
TECHONLY	Ambient (preferred)		
	Refrigerated		

# Clinical & Interpretive

# **Clinical Information**

The hepatitis B nucleocapsid contains 2 serologically distinct antigens, the core and envelope antigens, surrounded by an



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outer envelope-hepatitis B virus surface antigen. The core antigen is most often present in chronic active hepatitis, compared to the surface antigen, which is present in the carrier state.

#### Interpretation

This test does not include pathologist interpretation, only technical performance of the stain. If interpretation is required, order PATHC / Pathology Consultation for a full diagnostic evaluation or second opinion of the case.

The positive and negative controls are verified as showing appropriate immunoreactivity. If a control tissue is not included on the slide, a scanned image of the relevant quality control tissue is available upon request; call 855-516-8404.

Interpretation of this test should be performed in the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

#### Cautions

Age of a cut paraffin section can affect immunoreactivity. Stability thresholds vary widely among published literature and are antigen dependent. Best practice is for paraffin sections to be cut within 6 weeks.

The charge of glass slides can be affected by environmental factors and subsequently may alter slide staining. Sending unsuitable glass slides can result in inconsistent staining due to poor slide surface chemistry.

Best practices for storage of positively charged slides: -Minimize time slides are stored after being unpackaged -Limit exposure to high humidity and heat -Minimize exposure to plastics

### **Clinical Reference**

1. Bonino F, Pratvisuth T, Brunetto MR, Liaw YF. Diagnostic markers of chronic hepatitis B infection and disease. Antivi Ther. 2010;15(Suppl 3):35-44

2. Yang H, Fu Q, Liu C, et al. Hepatitis B virus promotes autophagic degradation but not replication in autophagosome. Biosci Trends. 2015;9(2):111-116. doi:10.5582/bst.2015.01049

3. Liu D, Ni B, Wang L, Zhang M, Liu W, Wu Y. Hepatitis B virus core protein interacts with CD59 to promote complement-mediated liver inflammation during chronic hepatitis B virus infection. FEBS Lett. 2013;587(20):3314-3320. doi:10.1016/j.febslet.2013.08.044

4. Magaki S, Hojat SA, Wei B, So A, Yong WH. An introduction to the performance of immunohistochemistry. Methods Mol Biol. 2019;1897:289-298. doi:10.1007/978-1-4939-8935-5\_25

### Performance

### **Method Description**

Immunohistochemistry on sections of paraffin-embedded tissue.(Unpublished Mayo method)

# PDF Report

No



Hepatitis B Core (HBc) Immunostain, Technical Component Only

Day(s) Performed

Monday through Friday

Report Available 1 to 3 days

**Specimen Retention Time** Until staining is complete.

Performing Laboratory Location Rochester

# Fees & Codes

#### Fees

- Authorized users can sign in to <u>Test Prices</u> for detailed fee information.
- Clients without access to Test Prices can contact <u>Customer Service</u> 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact <u>Customer Service</u>.

# **Test Classification**

This test has been cleared, approved, or is exempt by the US Food and Drug Administration and is used per manufacturer's instructions. Performance characteristics were verified by Mayo Clinic in a manner consistent with CLIA requirements.

## **CPT Code Information**

88342-TC, Primary 88341-TC, If additional IHC

### LOINC<sup>®</sup> Information

Test ID	Test Order Name	Order LOINC <sup>®</sup> Value
НЕРВС	Hepatitis B core IHC, Tech Only Order only;no result	
Result ID	Test Result Name	Result LOINC <sup>®</sup> Value
70764	Hepatitis B core IHC, Tech Only	Bill only; no result