

BCOR Immunostain, Technical Component
Only

# **Overview**

#### **Useful For**

Helping in the distinction of a subset of primitive round cell sarcomas with *BCOR* rearrangements from other Ewing/Ewing-like sarcomas

#### **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** 

# **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 pathology address label and the pink Immunostain Technical Only label included in the kit to the outside of the transport container.

# **Specimen Required**

Supplies: Immunostain Technical Only Envelope (T693)

Specimen Type: Tissue

**Preferred:** 2 unstained positively charged glass slide (25- x 75- x 1-mm) per test ordered; sections 4-microns thick.



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Acceptable: Formalin-fixed, paraffin-embedded (FFPE) tissue block

## **Digital Image Access**

- 1. Information on accessing digital images of immunohistochemical (IHC) stains and the manual requisition form can be accessed through this website: <a href="https://news.mayocliniclabs.com/ihc-stains/">https://news.mayocliniclabs.com/ihc-stains/</a>
- 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: <a href="https://news.mayocliniclabs.com/ihc-stains/#FAQ">https://news.mayocliniclabs.com/ihc-stains/#FAQ</a>

#### **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**

| Tissue/Other | Wet/frozen tissue Cytology smears Nonformalin fixed tissue Nonparaffin embedded tissue |
|--------------|--|
| rissue/Other | Noncharged slides ProbeOn slides   |

# **Specimen Stability Information**

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

# Clinical & Interpretive

#### **Clinical Information**

Round cell sarcomas are a heterogeneous group of tumors which have diverse genetic abnormalities, clinical presentations and outcomes despite similar cytomorphology. The diagnosis of these emerging entities has relied on molecular tests until recent immunohistochemical screening markers. BCOR (BCL-6 interacting corepressor) is involved in suppressing gene expression by either interacting with BCL-6 or binding to PCGF1 (poly-comb-group RING finger homologue1) and inducing gene silencing by histone modification. BCOR immunohistochemistry is a highly sensitive marker in identifying round cell sarcomas with *BCOR* abnormalities.

#### Interpretation

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.

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. Contact 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.



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#### **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.

#### Clinical Reference

- 1. Machado I, Yoshida A, Lopez-Guerrero JA, et al: Immunohistochemical analysis of NKX2.2, ETV4, and BCOR in a large series of genetically confirmed Ewing sarcoma family of tumors. Pathol Res Pract 2017; 213:1048-1053
- 2. Chiang S, Lee CH, Stewart CJR, et al: BCOR is a robust diagnostic immunohistochemical marker of genetically diverse high-grade endometrial stromal sarcoma, including tumors exhibiting variant morphology. Mod Pathol 2017; 30:1251-1261
- 3. Kao YC, Sung YS, Zhang L, et al: BCOR Overexpression Is a Highly Sensitive Marker in Round Cell Sarcomas With BCOR Genetic Abnormalities. Am J Surg Pathol 2016;40(12):1670-1678

#### **Performance**

## **Method Description**

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

## **PDF Report**

No

#### 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>.



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#### **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®** Information

| Test ID | st ID Test Order Name |                      |
|---------|-----------------------|----------------------|
| BCOR    | BCOR IHC, Tech Only   | Order only;no result |

| Result ID | Test Result Name    | Result LOINC® Value  |
|-----------|---------------------|----------------------|
| 605261    | BCOR IHC, Tech Only | Bill only; no result |