Overview

Useful For
Identification of IDH2 R172K mutant protein in angioimmunoblastic T-cell lymphoma or acute myeloid leukemia

Reflex Tests

<table>
<thead>
<tr>
<th>Test Id</th>
<th>Reporting Name</th>
<th>Available Separately</th>
<th>Always Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHTOA</td>
<td>IHC Additional, Tech Only</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>IHTOI</td>
<td>IHC Initial, Tech Only</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

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 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
Container/Tube: Immunostain Technical Only Envelope
Preferred: 2 Unstained positively charged glass slide (25- x 75- x 1-mm) per test ordered; sections 4-microns thick.
Test Definition: IDH2
IHD2, R172K Mutation, Immunostain,
Technical Component Only

Acceptable: Formalin-fixed, paraffin-embedded tissue block

Digital Image Access
Mayo Clinic is preparing to migrate to a new slide scanning solution and will need to temporarily suspend digital imaging for technical component-only IHC/ISH orders received after June 17. We will send a follow-up notification indicating when digital imaging resumes. We appreciate your patience as we improve our digital imaging solution.

Reject Due To

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

Specimen Stability Information

<table>
<thead>
<tr>
<th>Specimen Type</th>
<th>Temperature</th>
<th>Time</th>
<th>Special Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECHONLY</td>
<td>Ambient (preferred)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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Clinical & Interpretive

Clinical Information
The IDH2 R172K mutation is present in a subset of cases of angioimmunoblastic T-cell lymphoma (AITL). Detection of the mutant protein using a mutation-specific antibody is useful in the diagnosis of AITL. This mutation may also be found in cases of acute myeloid leukemia.

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 and documentation is retained at Mayo Clinic Rochester. 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.
Clinical Reference

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 Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their Regional Manager. For assistance, contact Customer Service.

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
**Test Definition: IDH2**
IHD2, R172K Mutation, Immunostain, Technical Component Only

requirements.

**CPT Code Information**
88342-TC, primary
88341-TC, if additional IHC

**LOINC® Information**

<table>
<thead>
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<th>Test ID</th>
<th>Test Order Name</th>
<th>Order LOINC® Value</th>
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<td>IDH2, R172K Mutation, IHC Tech Only</td>
<td>No LOINC Needed</td>
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<table>
<thead>
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<th>Result ID</th>
<th>Test Result Name</th>
<th>Result LOINC® Value</th>
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<td>616904</td>
<td>IDH2, R172K Mutation, IHC Tech Only</td>
<td>No LOINC Needed</td>
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