

PAX2 Immunostain, Technical Component Only

Overview

Useful For

Aiding in the diagnosis of endocervical adenocarcinoma and renal cell carcinoma

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

Supplies: Immunostain Technical Only Envelope (T693)
Specimen Type: Tissue
Container/Tube: Immunostains Technical Only Envelope
Preferred: 2 Unstained positively charged glass slide (25- x 75- x 1-mm) per test ordered; sections 4-microns thick.
Acceptable: Formalin-fixed, paraffin-embedded 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: <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 | |

Specimen Stability Information

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

Clinical & Interpretive

Clinical Information

Paired box gene 2 (PAX2) is a nuclear transcription factor. Expression of PAX2 and PAX8 is useful in the diagnosis of renal cell carcinoma. Loss of PAX2 expression is useful in the diagnosis of endocervical adenocarcinoma.

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.



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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

1. Rabban J, McAlhany S, Lerwill M, et al. PAX2 Distinguishes Benign Mesonephric and Mullerian Glandular Lesions of the Cervix From Endocervical Adenocarcinoma, Including Minimal Deviation Adenocarcinoma. Am J Surg Pathol. 2010;34(2):137-146

2. Ozcan A, Roza G, Ro J, et al. PAX2 and PAX8 Expression in Primary and Metastatic Renal Tumors: A Comprehensive Comparison. Arch Pathol Lab Med. 2012;136(12):1541-1551

3. Knoepp S, Kunju L, Roh M. Utility of PAX8 and PAX2 immunohistochemistry in the identification of renal cell carcinoma in diagnostic cytology. Diagn Cytopathol. 2012;40(8):667-672

4. Shukla A, Thomas D, Roh M. PAX8 and PAX2 expression in endocervical adenocarcinoma in situ and high-grade squamous dysplasia. Int J Gynecol Pathol. 2013;32(1):116-1121

5. 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

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



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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 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 requirements.

CPT Code Information

88342-TC, primary 88341-TC, if additional IHC

LOINC[®] Information

| Test ID | Test Order Name | Order LOINC [®] Value |
|---------|---------------------|--------------------------------|
| PAX2 | PAX2 IHC, Tech Only | Order only;no result |

| Result ID | Test Result Name | Result LOINC [®] Value |
|-----------|---------------------|---------------------------------|
| 607796 | PAX2 IHC, Tech Only | Bill only; no result |