

## Overview

**Useful For**

Identifying nectin-4 overexpression in bladder cancer and other cancers

**Method Name**

Immunohistochemistry (IHC)

**NY State Available**

Yes

## Specimen

**Specimen Type**

Special

**Shipping Instructions**

Attach the green "Attention Pathology" address label (T498) to the outside of the transport container before putting into the courier mailer.

**Necessary Information**

A pathology/diagnostic report and a brief history are required.

**Specimen Required**

**Specimen Type:** Tissue

**Supplies:** Pathology Packaging Kit (T554)

**Collection Instructions:** Formalin-fixed, paraffin-embedded tissue block; or 3 unstained glass, positively-charged slides with 4-microns formalin-fixed, paraffin-embedded tissue

**Additional Information:** One slide will be stained with hematoxylin and eosin and returned.

**Forms**

If not ordering electronically, complete, print, and send a [Immunohistochemical \(IHC\)/In Situ Hybridization \(ISH\) Stains Request](#) (T763) with the specimen.

**Reject Due To**

Wet/frozen tissue Decalcified paraffin embedded	Reject
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tissue	
Cytology	
smears	
Non-formalin fixed tissue	
Nonparaffin embedded tissue	
Noncharged slides	
ProbeOn slides	
Snowcoat slides	

## Specimen Stability Information

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

## Clinical & Interpretive

### Clinical Information

Nectin-4, also known as poliovirus receptor-like 4 (PVRL4), is overexpressed in many cancers, in particular bladder cancer. An antibody drug conjugate, enfortumab vedotin, targets the cell surface protein nectin-4. Some studies suggest that tumors with high expression of nectin-4 are more likely responsive to drug therapy.

### Reference Values

An interpretive report will be provided.

### 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.

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

This test has been validated for nondecalcified paraffin-embedded tissue specimens fixed in 10% neutral buffered formalin. Recommended fixation time is between 6 and 48 hours. This test has not been validated on tissues subjected to the decalcification process or use of alternative fixatives.

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. Heath EI, Rosenberg JE. The biology and rationale of targeting nectin-4 in urothelial carcinoma. *Nat Rev Urol.* 2021;18(2):93-103
2. Bouleftour W, Guillot A, Magne N. The anti-nectin 4: A promising tumor cells target. A systematic review. *Mol Cancer Ther.* 2022;21(4):493-501
3. Takano A, Ishikawa N, Nishino R, et al. Identification of nectin-4 oncoprotein as a diagnostic and therapeutic target for lung cancer. *Cancer Res.* 2009;69(16):6694-6703

**Performance****Method Description**

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

**PDF Report**

No

**Day(s) Performed**

Monday through Friday

**Report Available**

5 to 7 days

**Specimen Retention Time**

Until reported

**Performing Laboratory Location**

Mayo Clinic Laboratories - Rochester Main Campus

**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 account representative. For assistance, contact [Customer Service](#).

**Test Classification**

This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA

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requirements. It has not been cleared or approved by the US Food and Drug Administration.

**CPT Code Information**

88360

**LOINC® Information**

Test ID	Test Order Name	Order LOINC® Value
NECT4	Nectin-4, SemiQuant IHC, Manual	111554-2

Result ID	Test Result Name	Result LOINC® Value
622261	Interpretation	59465-5
622262	Participated in the Interpretation	No LOINC Needed
622263	Report electronically signed by	19139-5
622264	Material Received	81178-6
622265	Disclaimer	62364-5
622266	Case Number	80398-1