

Mucin 6, Immunostain, Technical Component
Only

### Overview

#### **Useful For**

Aiding in subtyping intraductal papillary mucinous neoplasms as part of an immunopanel

#### **Reflex Tests**

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



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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: <a href="https://news.mayocliniclabs.com/pathology/digital-imaging/">https://news.mayocliniclabs.com/pathology/digital-imaging/</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/pathology/digital-imaging/#section3">https://news.mayocliniclabs.com/pathology/digital-imaging/#section3</a>

#### **Forms**

If not ordering electronically, complete, print, and send an <u>Immunohistochemical (IHC)/In Situ Hybridization (ISH) Stains</u>
Request (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**

Mucin 6 (MUC6) is a large glycoprotein that plays a major role in the protection of the gastrointestinal tract and belongs to the family of secretory mucins. MUC6 is expressed in the cytoplasm/membrane of gastric pyloric epithelial cells. An immunopanel consisting of MUC1, MUC2, MUC5AC, and MUC6 is useful in subtyping intraductal papillary mucinous neoplasms.

# Interpretation



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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.

### **Clinical Reference**

- 1. Lau SK, Weiss LM, Chu PG. Differential expression of MUC1, MUC2, and MUC5AC in carcinomas of various sites: an immunohistochemical study. Am J Clin Pathol. 2004;122(1):61-69. doi:10.1309/9R66-73QE-C06D-86Y4
- 2. Pezhouh MK, Park JY. Gastric pyloric gland adenoma. Arch Pathol Lab Med. 2015;139(6):823-826. doi:10.5858/arpa.2013-0613-RS
- 3. Kwak HA, Liu X, Allende DS, Pai RK, Hart J, Xiao SY. Interobserver variability in intraductal papillary mucinous neoplasm subtypes and application of their mucin immunoprofiles. Mod Pathol. 2016;29(9):977-984. doi:10.1038/modpathol.2016.93
- 4. Kim DH, Shin N, Kim GH, et al. Mucin expression in gastric cancer: reappraisal of its clinicopathologic and prognostic significance. Arch Pathol Lab Med. 2013;137(8):1047-1053. doi:10.5858/arpa.2012-0193-OA
- 5. Castellano-Meglas VM, AndrEs CI, LOpez-Alonso G, Colina-Ruizdelgado F. Pathological features and diagnosis of intraductal papillary mucinous neoplasm of the pancreas. World J Gastrointest Oncol. 2014;6(9):311-324. doi:10.4251/wjgo.v6.i9.311
- 6. Horinouchi M, Nagata K, Nakamura A, et al. Expression of different glycoforms of membrane mucin (MUC1) and secretory mucin (MUC2, MUC5AC and MUC6) in pancreatic neoplasms. Acta Histochem Cytochem. 2003;36(5):443-453. doi:10.1267/ahc.36.443
- 7. 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

### Day(s) Performed

Monday through Friday



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## **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®** Information

Test ID	Test Order Name	Order LOINC® Value
MUCN6	Mucin 6 IHC, Tech Only	Order only;no result

Result ID	Test Result Name	Result LOINC® Value
605121	Mucin 6 IHC, Tech Only	Bill only; no result