

CD56 Immunostain, Technical Component
Only

## **Overview**

### **Useful For**

Aiding in the identification of tumors with neuroendocrine differentiation

Aiding in the identification of natural killer cell lineage in a subset of lymphomas

### **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



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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.

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/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

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**

CD56 (cluster of differentiation 56) is an adhesion molecule mediating homophilic and heterophilic adhesion in neurons, natural killer cells, and a small subset of CD4- and CD8-positive T cells. It is expressed in tumors with neuroendocrine differentiation (small cell lung carcinoma and neural-derived tumors) or natural killer cell lineage (subset of lymphomas). In normal small intestine, the ganglion cells in the muscle wall and nerves will show strong staining. Scattered



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lymphocytes may also be positive.

### 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.

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. Kerekes D, Visscher DW, Hoskin TL, et al. CD56+ immune cell infiltration and MICA are decreased in breast lobules with fibrocystic changes. Breast Cancer Res Treat. 2018;167(3):649-658. doi:10.1007/s10549-017-4558-0
- 2. Skaria PE, Ahmed AA, Yin H, Nicol K, Reid KJ, Singh V. Expression of HBME-1 and CD56 in follicular variant of papillary carcinoma in children: An immunohistochemical study and their diagnostic utility. Pathol Res Pract. 2019;215(5):880-884. doi:10.1016/j.prp.2019.01.031
- 3. Moritz AW, Schlumbrecht MP, Nadji M, Pinto A. Expression of neuroendocrine markers in non-neuroendocrine endometrial carcinomas. Pathology. 2019;51(4):369-374. doi:10.1016/j.pathol.2019.02.003
- 4. Alshenawy HA. Utility of immunohistochemical markers in diagnosis of follicular cell derived thyroid lesions. Pathol Oncol Res. 2014;20(4):819-828. doi:10.1007/s12253-014-9760-3
- 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

No

## Day(s) Performed

Monday through Friday

## Report Available

1 to 3 days



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### **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
CD56	CD56 IHC, Tech Only	Order only;no result

Result ID	Test Result Name	Result LOINC® Value
70707	CD56 IHC, Tech Only	Bill only; no result