

Test Definition: THSIF

Thrombospondin Type 1 Domain Containing 7A (THSD7A), Immunofluorescence

Overview

Useful For

Diagnosis of thrombospondin type 1 domain-containing 7A (THSD7A)-associated membranous nephropathy

Method Name

Direct Immunofluorescence (DIF)

NY State Available

Yes

Specimen

Specimen Type

Special

Ordering Guidance

If additional interpretation/analysis is needed, request PATHC / Pathology Consultation along with this test and send the corresponding renal pathology light microscopy and immunofluorescence (IF) slides (or IF images on a CD), electron microscopy images (prints or CD), and the pathology report.

Necessary Information

A preliminary pathology report is required for testing to be performed. Send information with specimen. The laboratory will not reject testing if a reason for testing is not provided; however appropriate testing and interpretation may be compromised or delayed. If not provided, an appropriate indication for testing may be entered by Mayo Clinic Laboratories.

Specimen Required

Specimen Type: Kidney tissue

Preferred: 2 Unstained positively charged glass slide (25- x 75- x 1-mm) per test ordered; paraffin sections 3 to 4-microns

thick

Acceptable: Formalin-fixed, paraffin-embedded (FFPE) kidney tissue block

Forms

If not ordering electronically, complete, print, and send 1 of the following forms with the specimen:

- -Kidney Transplant Test Request
- -Renal Diagnostics Test Request (T830)

Specimen Minimum Volume

See Specimen Required



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Reject Due To

All specimens will be evaluated at Mayo Clinic Laboratories for test suitability.

Specimen Stability Information

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

Clinical & Interpretive

Clinical Information

Thrombospondin type 1 domain-containing 7A (THSD7A) is a target antigen in membranous nephropathy (MN) and is detected in approximately 3% to 5% of non- phospholipase A2 receptor (PLA2R)-associated MN patients. Differentiating THSD7A-associated MN from PLA2R-associated MN is critical as approximately 20% of patients with THSD7A-associated MN have solid malignancy suggesting that THSD7A-associated MN is more likely to be secondary to malignancy than PLA2R-associated MN.

Interpretation

Staining is interpreted and reported as negative or positive.

Cautions

No significant cautionary statements

Clinical Reference

- 1. Hoxha E, Beck Jr LH, Wiech T et al. An indirect immunofluorescence method facilitates detection of thrombospondin type 1 domain-containing 7A-specific antibodies in membranous nephropathy. J Am Soc Nephrol. 2017;28:520-531
- 2. Larsen CP, Cossey LN, Bech LH. THSD7A staining of membranous glomerulopathy in clinical practice reveals cases with dual autoantibody positivity. Mod Pathol. 2016;29:421-426
- 3. Sharma SG, Larsen CP: Tissue staining for THSD7A in glomeruli correlates with serum antibodies in primary membranous nephropathy: a clinicopathological study. Mod Pathol. 2018;31(4):616-622

Performance

Method Description

Direct immunofluorescence staining on sections of formalin-fixed, paraffin-embedded kidney tissue. (Unpublished Mayo method)

PDF Report

No



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Day(s) Performed

Monday through Friday

Report Available

1 to 2 days

Specimen Retention Time

Until reported

Performing Laboratory Location

Mayo Clinical Laboratories- Rochester Main Campus

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 was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. It has not been cleared or approved by the US Food and Drug Administration.

CPT Code Information

88346-Primary IF 88350-If additional IF

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
THSIF	THSD7A Immunofluorescence	101116-2

Result ID	Test Result Name	Result LOINC® Value
605245	Interpretation	50595-8
606383	Participated in the Interpretation	No LOINC Needed
606384	Report electronically signed by	19139-5
606385	Addendum	35265-8
606386	Gross Description	22634-0
606387	Material Received	22633-2
606388	Disclaimer	62364-5
606389	Case Number	80398-1