MAYO CLINIC LABORATORIES

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 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 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