

Overview

Useful For

[Distinguishing primary membranous nephropathy from secondary membranous nephropathy](#)

Special Instructions

- [Renal Biopsy Patient Information](#)
- [Renal Biopsy Procedure for Handling Tissue for Light Microscopy, Immunofluorescent Histology, and Electron Microscopy](#)

Method Name

Immunofluorescence

NY State Available

Yes

Specimen

Specimen Type

Special

Ordering Guidance

This test will report as negative or positive for autoantibodies to phospholipase A2 receptor (PLA2R).

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.

Shipping Instructions

1. Advise shipping unstained slides or tissue block specimens frozen in Styrofoam transportation coolers filled with dry ice to ensure specimens are received at required specimen stability temperature.
2. Attach the green pathology address label included in the kit to the outside of the transport container.

Necessary Information

A pathology/diagnostic report is required.

Specimen Required

Specimen Type: Kidney tissue

Preferred: Frozen unstained slides (unfixed)

Slides: 2 frozen tissue unstained positively charged glass slides (25- x 75- x 1-mm) per test ordered; sections 4-microns

thick, centered on the slide, and submitted on dry ice.

- Acceptable: Frozen Unfixed Tissue Block (OCT)
- Container/Tube: Entire specimen
- Collection Instructions: Send tissue embedded in OCT on dry ice.

- Acceptable: Wet Tissue
- Supplies: Renal Biopsy Kit (T231)
- Container/Tube: Renal Biopsy Kit, Zeus/Michel's
- Specimen Volume: Entire specimen
- Collection Instructions: Collect specimens according to the instructions in [Renal Biopsy Procedure for Handling Tissue for Light Microscopy, Immunofluorescent Histology, and Electron Microscopy](#).
- Additional Information: If standard immunoglobulin and complement immunofluorescence have already been performed, submit the residual frozen tissue (must contain glomeruli) on dry ice.

Forms

1. [Renal Biopsy Patient Information](#)
2. If not ordering electronically, complete, print, and send a [Renal Diagnostics Test Request](#) (T830) with the specimen.

Reject Due To

Ambient slides	Reject
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Specimen Stability Information

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

Clinical & Interpretive

Clinical Information

Membranous nephropathy is the most common cause of nephrotic syndrome in white adults. Eighty-five percent of membranous nephropathy cases are primary or idiopathic, and the other 15% are secondary. Phospholipase A2 receptor (PLA2R) is an antigen located on podocytes. The majority of cases of primary membranous nephropathy have circulating autoantibodies against PLA2R.

Interpretation

This test, when not accompanied by a pathology consultation request, will be reported as either positive or negative.

Cautions

No significant cautionary statements.

Clinical Reference

1. Larsen CP, Messias NC, Silva FG, Messias E, Walker PD: Determination of primary versus secondary membranous glomerulopathy utilizing phospholipase A2 receptor staining in renal biopsies. Mod Pathol. 2013 May;26(5):709-715

2. Svobodova B, Honsova E, Ronco P, Tesar V, Debiec H: Kidney biopsy is a sensitive tool for retrospective diagnosis of PLA2R-related membranous nephropathy. Nephrol Dial Transplant. 2013 Jul;28(7):1839-1844

3. Cossey LN, Walker PD, Larsen CP: Phospholipase A2 receptor staining in pediatric idiopathic membranous glomerulopathy. Pediatr Nephrol. 2013 Dec;28(12):2307-2311

4. Larsen CP, Walker PD: Phospholipase A2 receptor (PLA2R) staining is useful in the determination of de novo versus recurrent membranous glomerulopathy. Transplantation. 2013 May;95(10):1259-1262

5. Tomas NM, Beck LH Jr, Meyer-Schwesinger C, et al: Thrombospondin type-1 domain-containing 7A in idiopathic membranous nephropathy. N Engl J Med. 2014 Dec 11;371(24):2277-2287

Performance

Method Description

Indirect immunofluorescence staining on sections of frozen tissue.(Unpublished Mayo method)

PDF Report

No

Day(s) Performed

Monday through Friday

Report Available

1 to 2 days

Performing Laboratory Location

Rochester

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

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
PLAIF	PLA2R Immunofluorescence	In Process

Result ID	Test Result Name	Result LOINC® Value
71225	Interpretation	59465-5
71226	Participated in the Interpretation	No LOINC Needed
71230	Material Received	81178-6
71229	Gross Description	22634-0
71227	Report electronically signed by	19139-5
71228	Addendum	35265-8
71617	Disclaimer	62364-5
71847	Case Number	80398-1