MAYO CLINIC LABORATORIES

Test Definition: SUBIF

Immunoglobulin G (IgG) Subtypes Immunofluorescence, Tissue

Overview

Useful For

Determining the subclass of IgG antibody found in renal immunofluorescent panel and determining if the deposits are monoclonal or monotypic

Special Instructions

- Renal Biopsy Patient Information
- Renal Biopsy Preparation Instructions

Method Name

Direct Immunofluorescence

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.

Shipping Instructions

1. Advise shipping frozen specimens (unstained slides or tissue block) in Styrofoam transportation coolers filled with dry ice to ensure specimens are received at required specimen stability temperature.
2. Attach the green "Attention Pathology" address label (T498) to the outside of the transport container before putting into the courier mailer.

Necessary Information

A pathology/diagnostic report is required.

Specimen Required

Submit only 1 of the following specimens:

Preferred:

Specimen Type: Unstained slides (unfixed)

Source: Kidney tissue
Slides: 4 Slides
Collection Instructions: 4 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.
Additional Information: Broken or cracked unstained slides will be rejected. Stained slides that were broken and repaired (ie, double mounted) at the client site will not be rejected, as, in most cases, they can still be reviewed under the microscope. However, due to the double mounting, digital scanning cannot be performed.

Acceptable:
Specimen Type: Unfixed tissue block (O.C.T)
Source: Kidney tissue
Specimen Volume: Entire specimen
Collection Instructions:
1. Embed in O.C.T. compound.
2. Freeze specimen and ship on dry ice.

Acceptable:
Specimen Type: Wet tissue
Source: Kidney tissue
Supplies: Renal Biopsy Kit (T231)
Container/Tube: Renal Biopsy Kit, Zeus/Michel's
Specimen Volume: Entire specimen
Collection Instructions:
1. Collect specimens according to the instructions in Renal Biopsy Preparation Instructions.
2. If standard immunoglobulin and complement immunofluorescence has 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 1 of the following forms with the specimen:
-Kidney Transplant Test Request
-Renal Diagnostics Test Request (T830)

Reject Due To

Broken or cracked unstained slides	Reject
Broken or cracked stained slides that cannot be repaired	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Special	Frozen		

Clinical & Interpretive

Clinical Information
IgG subtypes are helpful in confirming some disease processes affecting the kidney.

Reference Values
An interpretive report will be provided.

Interpretation
Staining intensity is graded as negative (0), weak (trace, 1+), moderate (2+) and strong (3+) and will be reported as such when not accompanied by a pathology consultation request.

If additional interpretation or analysis is needed, request PATHC / Pathology Consultation along with this test and provide the corresponding renal pathology light

Cautions
Broken or cracked unstained slides are not compatible with the instrumentation used in our performing laboratories and will be rejected. Additional material may be requested.

Attempts will be made to repair broken or cracked stained slides; however, if they are unable to be repaired (ie, shattered in transit), they will be rejected and discarded due to safety concerns.

Clinical Reference
Hemminger J, Nadasdy G, Satoskar A, Brodsky SV, Nadasdy T. IgG subclass staining in routine renal biopsy material. Am J Surg Pathol. 2016;40(5):617-626

Performance

Method Description
Direct immunofluorescence staining on sections of fresh or frozen tissue.(Unpublished Mayo method)

PDF Report
No

Day(s) Performed
Monday through Friday

Report Available

1 to 2 days

Specimen Retention Time

Unstained slides: 2 weeks after results are reported; Stained slides: digital images are obtained for all slides used in testing and kept indefinitely; Unfixed tissue blocks: 5 years

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 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

88346-Primary IF
88350-If additional IF

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
SUBIF	IGG Subtypes Immunofluorescence	In Process

Result ID	Test Result Name	Result LOINC® Value
BA0271	Interpretation	50595-8
BA0272	Participated in the Interpretation	No LOINC Needed
BA0276	Addendum	35265-8
BA0275	Report electronically signed by	19139-5
71618	Disclaimer	62364-5
71850	Case Number	80398-1
BA0274	Gross Description	22634-0
BA0273	Material Received	22633-2