

## 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 Procedure for Handling Tissue for Light Microscopy, Immunofluorescent Histology, and Electron Microscopy](#)

### 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 specimens in Styrofoam transportation coolers to avoid extreme hot or cold temperatures 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

**Preferred:** Frozen tissue

**Supplies:** Renal Biopsy Kit (T231)

**Specimen Type:** Kidney tissue

**Container/Tube:** Renal Biopsy Kit, Zeus/Michel's, Frozen

**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 has already been performed, submit the residual frozen tissue (must contain glomeruli) on dry ice.

**Acceptable:** Frozen tissue

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

### Forms

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

### 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	Frozen (preferred)		
	Ambient		
	Refrigerated		

## Clinical & Interpretive

### Clinical Information

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

### 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.

### Cautions

No significant cautionary statements

### 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 May;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**

5 years

**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 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

**Test Definition: SUBIF**Immunoglobulin G (IgG) Subtypes  
Immunofluorescence, Tissue

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