

## Overview

### Useful For

Detecting septin-5 IgG in serum specimens

Reporting an end titer result from serum specimens

### Testing Algorithm

If the indirect immunofluorescence pattern suggests septin-5, then septin-5 antibody cell-binding assay and this test will be performed at an additional charge.

### Method Name

Only orderable as a reflex. For more information see MDS2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Serum.

Indirect Immunofluorescence Assay (IFA)

### NY State Available

Yes

## Specimen

### Specimen Type

Serum

### Specimen Required

Only orderable as a reflex. For more information see MDS2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Serum.

### Collection Container/Tube:

**Preferred:** Red top

**Acceptable:** Serum gel

**Submission Container/Tube:** Plastic vial

**Specimen Volume:** 1 mL

**Collection Instructions:** Centrifuge and aliquot serum into a plastic vial.

### Specimen Minimum Volume

See Specimen Required

### Reject Due To

Gross hemolysis	Reject
Gross lipemia	Reject
Gross icterus	Reject

## Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated (preferred)	28 days	
	Ambient	72 hours	
	Frozen	28 days	

## Clinical & Interpretive

### Clinical Information

Septin-5 IgG is a biomarker of a rapidly progressive, but treatable, form of autoimmune cerebellar ataxia. Patients present with subacute onset of cerebellar ataxia with prominent eye movement symptoms (oscillopsia or vertigo). Improvement may occur after immunotherapy.

### Reference Values

Only orderable as a reflex. For more information see MDS2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Serum.

<1:240

### Interpretation

Seropositivity for septin antibodies by indirect immunofluorescence is consistent with a diagnosis of autoimmune disease of the central nervous system. Cell-binding assay testing for septin-5 IgG is required to confirm the diagnosis.

### Cautions

Negative results for septin antibodies do not exclude neurological autoimmunity or cancer.

### Clinical Reference

- Honorat JA, Lopez-Chiriboga AS, Kryzer TJ, et al: Autoimmune septin-5 cerebellar ataxia. *Neurol Neuroimmunol Neuroinflamm.* 2018 Jul 9;5(5):e474
- Honorat JA, Miske R, Scharf M, et al: 416. Neuronal septin autoimmunity: Differentiated serological profiles and clinical findings. *Ann Neurol.* 2020 Oct;88(Suppl 25):S55. Abstract

## Performance

**Method Description**

The patient's specimen is tested by a standardized immunofluorescence assay that uses a composite frozen section of mouse cerebellum, kidney, and gut tissues. After incubation with the specimen and washing, fluorescein-conjugated goat-antihuman IgG is applied. Neuron-specific autoantibodies are identified by their characteristic fluorescence staining patterns. Specimens that are scored positive for any neuronal nuclear or cytoplasmic autoantibody are titrated. Interference by coexisting non-neuron-specific autoantibodies can usually be eliminated by serologic absorption. (Honorat JA, Komorowski L, Josephs KA, et al. IgLON5 antibody: Neurological accompaniments and outcomes in 20 patients. *Neurol Neuroimmunol Neuroinflamm*. 2017;4[5]:e385. Published 2017 Jul 18. doi:10.1212/NXI.0000000000000385)

**PDF Report**

No

**Day(s) Performed**

Monday through Sunday

**Report Available**

5 to 10 days

**Specimen Retention Time**

2 days

**Performing Laboratory Location**

Mayo Clinic 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**

86256

**LOINC® Information**

Test ID	Test Order Name	Order LOINC® Value
SP5TS	Septin-5 IFA Titer, S	101458-8

## Test Definition: SP5TS

Septin-5 Antibody, Tissue  
Immunofluorescence Titer, Serum

Result ID	Test Result Name	Result LOINC® Value
616113	Septin-5 IFA Titer, S	101458-8