



## Test Definition: SP7TC

Septin-7 Antibody, Tissue  
Immunofluorescence Titer, Spinal Fluid

### Overview

#### Useful For

Detecting septin-7 IgG in cerebrospinal fluid (CSF) specimens

Reporting an end titer result from CSF specimens

#### Testing Algorithm

If the indirect immunofluorescence pattern suggests septin-7, then septin-7 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:

- ENC2 / Encephalopathy, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid
- MDC2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid
- MAC1 / Autoimmune Myelopathy/Paraneoplastic Evaluation, Spinal Fluid

Indirect Immunofluorescence Assay (IFA)

#### NY State Available

Yes

### Specimen

#### Specimen Type

CSF

#### Specimen Required

Only orderable as a reflex. For more information see:

- ENC2 / Encephalopathy, Autoimmune /Paraneoplastic Evaluation, Spinal Fluid
- MDC2 / Movement Disorder, Autoimmune /Paraneoplastic Evaluation, Spinal Fluid
- MAC1 / Autoimmune Myelopathy /Paraneoplastic Evaluation, Spinal Fluid

**Container/Tube:** Sterile vial

**Specimen Volume:** 1.5 mL

#### 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
CSF	Refrigerated (preferred)	28 days	
	Ambient	72 hours	
	Frozen	28 days	

## Clinical & Interpretive

### Clinical Information

Neurological phenotypes for septin-7 IgG positive patients include encephalopathy, myelopathy, encephalomyelopathy, painful myelopolyradiculopathy, and episodic ataxia. Psychiatric symptoms are also common with encephalopathic symptoms. Septin-7 IgG is also associated with cancer and positive response to immunotherapy.

### Reference Values

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- ENC2 / Encephalopathy, Autoimmune /Paraneoplastic Evaluation, Spinal Fluid
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### Interpretation

Seropositivity for septin antibodies by immunofluorescence is consistent with a diagnosis of autoimmune disease of the central nervous system. Cell-binding assay testing for septin-7 IgG is required to confirm the diagnosis.

### Cautions

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

### Clinical Reference

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
SP7TC	Septin-7 IFA Titer, CSF	101457-0

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Result ID	Test Result Name	Result LOINC® Value
616116	Septin-7 IFA Titer, CSF	101457-0