

# **Test Definition: SP7TS**

Septin-7 Antibody, Tissue Immunofluorescence Titer, Serum

#### Overview

#### **Useful For**

Detecting septin-7 IgG in serum specimens

Reporting an end titer result from serum specimens

# **Testing Algorithm**

If the indirect immunofluorescence pattern suggests septin-7, then aeptin-7 antibody by cell-binding assay and this test will be performed at an additional charge.

#### **Method Name**

Only orderable as a reflex. For more information see:

- -ENS2 / Encephalopathy, Autoimmune/Paraneoplastic Evaluation, Serum
- -MDS2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Serum
- -MAS1 / Myelopathy, 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:

- -ENS2 / Encephalopathy, Autoimmune/Paraneoplastic Evaluation, Serum
- -MDS2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Serum
- -MAS1 / Myelopathy, Autoimmune/Paraneoplastic Evaluation, Serum

#### Specimen Minimum Volume

See Specimen Required

## Reject Due To

Gross	Reject
hemolysis	
Gross lipemia	Reject



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	<del>-</del>
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**

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. Positive response to immunotherapy.

#### **Reference Values**

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- -ENS2 / Encephalopathy, Autoimmune/Paraneoplastic Evaluation, Serum
- -MDS2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Serum
- -MAS1 / Myelopathy, Autoimmune/Paraneoplastic Evaluation, Serum

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# Interpretation

Seropositivity for septin antibodies by indirect immunofluorescence assay 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



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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.000000000000385)

# **PDF Report**

No

# Day(s) Performed

Monday through Sunday

#### Report Available

5 to 10 days

## **Specimen Retention Time**

28 days

# **Performing Laboratory Location**

Mayo Clinic Laboratories - Rochester Main Campus

## **Fees & Codes**

#### **Fees**

- Authorized users can sign in to <u>Test Prices</u> for detailed fee information.
- Clients without access to Test Prices can contact <u>Customer Service</u> 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact <u>Customer Service</u>.

### **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
SP7TS	Septin-7 IFA Titer, S	101456-2

Result ID	Test Result Name	Result LOINC® Value
616115	Septin-7 IFA Titer, S	101456-2