



# Test Definition: SP7CC

Septin-7 Antibody, Cell-Binding Assay, Spinal Fluid

## Overview

### Useful For

Detecting septin-7 IgG by cell-binding assay using cerebrospinal fluid specimens

### Testing Algorithm

If the indirect immunofluorescence pattern suggests septin-7, then this test and septin-7 antibody IFA titer 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 / Myelopathy, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid

Cell-Binding Assay (CBA)

### 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 / Myelopathy, Autoimmune/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
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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. Positive response to immunotherapy.

### Reference Values

Only orderable as a reflex. For more information see:

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

### 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 (CBA) testing for septin-7 IgG is required to confirm the diagnosis. Seropositivity for Septin-7 IgG by CBA confirms a diagnosis of autoimmune disease of the central nervous system. A paraneoplastic cause should be considered in patients with septin-7-IgG.

### Cautions

Negative results for septin-7 IgG by cell-binding assay 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**

Patient specimen is applied to a composite slide containing transfected and nontransfected HEK-293 cells. After incubation and washing, fluorescein-conjugated goat-antihuman IgG is applied to detect the presence of patient IgG binding. (Package insert: IIFT: Neurology Mosaics, Instructions for the indirect immunofluorescence test. EUROIMMUN; FA\_112d-1\_A\_UK\_C13, 02/2019)

**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**

86255

**LOINC® Information**

Test ID	Test Order Name	Order LOINC® Value
SP7CC	Septin-7 CBA, CSF	101466-1

Result ID	Test Result Name	Result LOINC® Value
615872	Septin-7 CBA, CSF	101466-1