# Test Definition: SP7CS

Septin-7 Antibody, Cell-Binding Assay, Serum
(Non-Orderable)

## Overview

### Useful For

**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

Detecting septin-7 IgG by cell-binding assay using serum specimens

### Testing Algorithm

If the indirect immunofluorescence (IFA) 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:
-ENS2 / Encephalopathy, Autoimmune/Paraneoplastic Evaluation, Serum
-MDS2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Serum
-MAS1 / Myelopathy, Autoimmune/Paraneoplastic Evaluation, Serum

Cell-Binding Assay (CBA)

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

Negative

### Interpretation
Seropositivity for septin antibodies by immunofluorescence 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

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### 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 |
|---|---|---|
| SP7CS | Septin-7 CBA, S | 101467-9 |

| Result ID | Test Result Name | Result LOINC® Value |
|---|---|---|
| 615873 | Septin-7 CBA, S | 101467-9 |