

# **Test Definition: SP7CS**

Septin-7 Antibody, Cell-Binding Assay, Serum

# Overview

## **Useful For**

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	Reject
hemolysis	
Gross lipemia	Reject
Gross icterus	Reject



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## **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

## 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)



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PDF Report

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**

86255

# LOINC<sup>®</sup> Information

Test ID	Test Order Name	Order LOINC <sup>®</sup> Value
SP7CS	Septin-7 CBA, S	101467-9
Result ID	Test Result Name	Result LOINC <sup>®</sup> Value
615873	Septin-7 CBA, S	101467-9