

# **Test Definition: SP5CC**

Septin-5 Antibody, Cell-Binding Assay, Spinal

Fluid

## **Overview**

#### **Useful For**

Detecting septin-5 IgG by cell-binding assay using cerebrospinal fluid specimens

## **Testing Algorithm**

If the indirect immunofluorescence (IFA) pattern suggests septin-5, then this test and septin-5 antibody IFA titer will be performed at an additional charge.

#### **Method Name**

Only orderable as a reflex. For more information see MDC2 / Movement Disorder, 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 MDC2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid.

**Container/Tube:** Sterile vial **Specimen Volume:** 1.5 mL

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

# **Clinical & Interpretive**

#### **Clinical Information**

Septin-5 IgG is a biomarker of a rapidly progressive, but treatable, form of autoimmune cerebellar ataxia. Patients present with subacute onset of cerebellar ataxia with prominent eye movement symptoms (oscillopsia or vertigo).

Improvement may occur after immunotherapy.

#### Reference Values

Only orderable as a reflex. For more information see MDC2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid.

Negative

## Interpretation

Seropositivity for septin antibodies by indirect immunofluorescence (IFA) is consistent with a diagnosis of autoimmune disease of the central nervous system. Cell-binding assay (CBA) testing for septin-5 IgG is required to confirm the diagnosis. Seropositivity for septin-5 IgG by CBA confirms a diagnosis of autoimmune disease of the central nervous system.

#### **Cautions**

Negative results for septin-5 IgG by cell-binding assay do not exclude neurological autoimmunity or cancer.

#### **Clinical Reference**

- 1. Honorat JA, Lopez-Chiriboga AS, Kryzer TJ, et al: Autoimmune septin-5 cerebellar ataxia. Neurol Neuroimmunol Neuroinflamm. 2018 Jul 9;5(5):e474
- 2. 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



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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**

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®** Information

Test ID	Test Order Name	Order LOINC® Value
SP5CC	Septin-5 CBA, CSF	101462-0

Result ID	Test Result Name	Result LOINC® Value
615868	Septin-5 CBA, CSF	101462-0