

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 hemolysis | Reject |
| Gross lipemia | Reject |
| Gross icterus | Reject |

Specimen Stability Information

| Specimen Type | Temperature | Time | Special Container |
|---------------|--------------------------|----------|-------------------|
| Serum | Refrigerated (preferred) | 28 days | |
| | Frozen | 28 days | |
| | Ambient | 72 hours | |

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)

PDF Report

No

Day(s) Performed

Monday through Sunday

Report Available

5 to 10 days

Specimen Retention Time

28 days

Performing Laboratory Location

Rochester

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 | In Process |

| Result ID | Test Result Name | Result LOINC® Value |
|-----------|------------------|---------------------|
| 615873 | Septin-7 CBA, S | In Process |