

Neurochondrin Antibody, Tissue Immunofluorescence Titer, Spinal Fluid

#### Overview

#### **Useful For**

Detecting neurochondrin-IgG in spinal fluid (CSF) from patients presenting with cerebellar and brainstem syndrome

Reporting an end titer result from CSF specimens

#### **Testing Algorithm**

If the indirect immunofluorescence pattern suggests neurochondrin, then neurochondrin antibody cell-binding assay and this test will be performed at an additional charge.

#### **Method Name**

Only orderable as a reflex. For more information see:

- -DMC2 / Dementia, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid
- -ENC2 / Encephalopathy, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid
- -EPC2 / Epilepsy, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid
- -MAC1 / Myelopathy, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid
- -MDC2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid
- -PCDEC / Pediatric Autoimmune Encephalopathy/CNS Disorder Evaluation, Spinal Fluid

Indirect Immunofluorescence Assay (IFA)

#### **NY State Available**

Yes

#### Specimen

#### **Specimen Type**

CSF

#### Specimen Required

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Container/Tube: Sterile vial



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Specimen Volume: 1.5 mL

#### Specimen Minimum Volume

See Specimen Required

#### Reject Due To

Gross	Reject
hemolysis	
Gross lipemia	Reject
Gross icterus	Reject

#### **Specimen Stability Information**

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

### Clinical & Interpretive

#### **Clinical Information**

Neurochondrin is a neuronal target antigen in autoimmune cerebellar degeneration. Patients positive for neurochondrin-IgG present with a subacute to chronic cerebellar and brainstem syndrome. Patients respond to long-term immunosuppressive treatment with clinical stabilization or improvement.

#### **Reference Values**

Only orderable as a reflex. For more information see:

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#### Interpretation

A positive result supports a diagnosis of central nervous system autoimmunity. Typical neurological phenotypes encountered include cerebellar ataxia and brainstem encephalitis. A paraneoplastic basis should be considered (uterine cancer in women), although cancers are generally not detected. Neurological stabilization or improvement may occur with immune therapy.



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#### **Cautions**

A negative result does not exclude neurological autoimmunity or cancer.

#### **Clinical Reference**

Shelly S, Kryzer TJ, Komorowski L, et al: Neurochondrin neurological autoimmunity. Neurol Neuroimmunol Neuroinflamm. 2019 Sep 11;6(6):e612. doi: 10.1212/NXI.000000000000012

#### **Performance**

#### **Method Description**

The patient's sample is tested by a standardized immunofluorescence assay that uses a composite frozen section of mouse cerebellum, kidney, and gut tissues. After incubation with sample and washing, fluorescein-conjugated goat-antihuman IgG is applied. Neuron-specific autoantibodies are identified by their characteristic fluorescence staining patterns. Samples that are scored positive for any neuronal nuclear or cytoplasmic autoantibody are titrated to an endpoint. Interference by coexisting non-neuron-specific autoantibodies can usually be eliminated by serologic absorption. (Honorat JA, Komorowski L, Josephs KA, et al: IgLON5 antibody: neurological accompaniments and outcomes in 20 patients. Neurol Neuroimmunol Neuroinflamm 2017 Jul 18;4(5):e385. doi: 10.1212/NXI.00000000000000385)

#### **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 <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**



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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**

86256

#### **LOINC®** Information

Test ID	Test Order Name	Order LOINC® Value
NCDTC	Neurochondrin IFA Titer, CSF	101453-9

Result ID	Test Result Name	Result LOINC® Value
616112	Neurochondrin IFA Titer, CSF	101453-9