

## Overview

### Useful For

Evaluating neurochondrin-IgG by cell-binding assay using serum from patients presenting with cerebellar and brainstem syndrome

### Testing Algorithm

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

### Method Name

Only orderable as a reflex. For more information see:

- DMS2 / Dementia, Autoimmune/Paraneoplastic Evaluation, Serum
- ENS2 / Encephalopathy, Autoimmune/Paraneoplastic Evaluation, Serum
- EPS2 / Epilepsy, Autoimmune/Paraneoplastic Evaluation, Serum
- MAS1 / Myelopathy, Autoimmune/Paraneoplastic Evaluation, Serum
- MDS2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Serum
- PCDES / Pediatric Autoimmune Encephalopathy/CNS Disorder 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:

- DMS2 / Dementia, Autoimmune/Paraneoplastic Evaluation, Serum
- ENS2 / Encephalopathy, Autoimmune/Paraneoplastic Evaluation, Serum
- EPS2 / Epilepsy, Autoimmune/Paraneoplastic Evaluation, Serum
- MAS1 / Myelopathy, Autoimmune/Paraneoplastic Evaluation, Serum
- MDS2 / Movement Disorder, Autoimmune/Paraneoplastic Evaluation, Serum
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### 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**

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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Negative

**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) though cancers are, generally, not detected. Neurological stabilization or improvement may occur with immune therapy.

**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.0000000000000612

## 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

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

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Test ID	Test Order Name	Order LOINC® Value
NDCS	Neurochondrin CBA, S	101450-5

Result ID	Test Result Name	Result LOINC® Value
615865	Neurochondrin CBA, S	101450-5