MAYO CLINIC LABORATORIES

Test Definition: CNEI

Peripheral Nervous System Comprehensive Neuropathy, Autoimmune Evaluation Interpretation, Serum (Non-Orderable)

Overview

Useful For

Only orderable as part of a profile. For more information see CNES / Peripheral Nervous System Comprehensive Neuropathy, Autoimmune Evaluation, Serum.

Interpretation for the Peripheral Nervous System Comprehensive Neuropathy, Autoimmune Evaluation

Method Name

Only orderable as part of a profile. For more information see CNES / Peripheral Nervous System Comprehensive Neuropathy, Autoimmune Evaluation, Serum.

Technical Interpretation

NY State Available

Yes

Specimen

Specimen Type

Serum

Specimen Required

Only orderable as part of a profile. For more information see CNES / Peripheral Nervous System Comprehensive Neuropathy, Autoimmune Evaluation, Serum.

Specimen Stability Information

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

Clinical & Interpretive

Clinical Information

This evaluation detects autoantibodies associated with autoimmune and paraneoplastic neuropathies. The panel

includes antibodies targeting peripheral nerve, dorsal root ganglia, and nodal/paranodal antigens, improving detection across diverse neuropathy phenotypes.

Reflex testing is performed to confirm and further characterize antibody reactivity, enhancing diagnostic sensitivity.

Appropriate for patients with subacute or progressive neuropathy, atypical or asymmetric presentations, autonomic involvement, or suspected immune-mediated or paraneoplastic etiologies.

Reference Values

Only orderable as part of a profile. For more information see CNES / Peripheral Nervous System Comprehensive Neuropathy, Autoimmune Evaluation, Serum.

An interpretive report will be provided.

Interpretation

The presence of specific autoantibodies and/or combinations of antibodies in this panel provides supportive evidence of an immune-mediated peripheral neuropathy. However, these results must be interpreted in the appropriate clinical context. A negative result does not exclude the possibility of an immune mediated peripheral neuropathy.

Cautions

Negative results do not exclude a diagnosis of an immune-mediated neuropathy. Autoantibody results should always be correlated with the clinical phenotype. The use of immunotherapy prior to sample collection may result in either false positive or false negative results.

The use of immunotherapy prior to sample collection may result in either false-positive or false-negative results.

Clinical Reference

1. Shelly S, Klein CJ, Dyck PJB, et al. Neurofascin-155 immunoglobulin subtypes: Clinicopathologic associations and neurologic outcomes. Neurology. 2021;97(24): e2392-e2403
2. Dubey D, Honorat JA, Shelly S, et al. Contactin-1 autoimmunity: Serologic, neurologic, and pathologic correlates. Neurol Neuroimmunol Neuroinflamm. 2020;7(4)e771
3. Paramasivan NK, Basal E, LaFrance-Corey RG, et al. Clinical Insights Into CASPR1 and CASPR1/contactin-1 complex autoimmune nodopathies. Neurology. 2026;106(5):e214403. doi:10.1212/WNL.0000000000214403
4. Klein CJ, Triplett JD, Murray DL, et al. Optimizing anti-myelin-associated glycoprotein and IgM-gammopathy testing for neuropathy treatment evaluation. Neurology. 2024;103(11):e210000. doi:10.1212/WNL.0000000000210000
5. Dubey D, Lennon VA, Gadoth A, et al. Autoimmune CRMP5 neuropathy phenotype and outcome defined from 105 cases. Neurology. 2018;90(2):e103-e110. doi:10.1212/WNL.0000000000004803
6. Dubey D, Jitprapaikulsan J, Bi H, et al. Amphiphysin-IgG autoimmune neuropathy: A recognizable clinicopathologic syndrome. Neurology. 2019;93(20):e1873-e1880. doi:10.1212/WNL.0000000000008472
7. Dubey D. Autoimmune neuromuscular disorders associated with neural antibodies. Continuum (Minneap Minn). 2024;30(4):1136-1159. doi:10.1212/CON.0000000000001461

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Performance

Method Description
An interpretation based on test results is generated by the laboratory information system.

PDF Report
No

Day(s) Performed
Monday through Sunday

Report Available
8 to 12 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
Not Applicable

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
CNEI	Comprehensive Neuropathy Interp, S	No LOINC Needed

Result ID	Test Result Name	Result LOINC® Value
621106	Comprehensive Neuropathy Interp, S	69048-7
624190	IFA Notes	48767-8