
Reporting Title: Peds Autoimm Enceph CNS, S**Performing Location:** Mayo Clinic Laboratories - Rochester Main Campus**Ordering Guidance:**

Multiple neurological phenotype-specific autoimmune/paraneoplastic evaluations are available. For more information as well as phenotype-specific testing options, see [Autoimmune Neurology Test Ordering Guide](#).

When more than one evaluation is ordered on the same order number, the duplicate test will be canceled.

For a list of antibodies performed with each evaluation, see [Autoimmune Neurology Antibody Matrix](#).

This test **should not be requested** for patients who have recently received radioisotopes, therapeutically or diagnostically, because of potential assay interference. The specific waiting period before specimen collection will depend on the isotope administered, the dose given, and the clearance rate in the individual patient. Specimens will be screened for radioactivity prior to analysis. Radioactive specimens received in the laboratory will be held 1 week and assayed if sufficiently decayed or canceled if radioactivity remains.

Necessary Information:

Provide the following information:

-Relevant clinical information

-Ordering healthcare professional's name, phone number, mailing address, and email address

Specimen Requirements:

Patient Preparation: For optimal antibody detection, specimen collection is recommended before starting immunosuppressant medication or intravenous immunoglobulin (IVIg) treatment.

Supplies: Sarstedt Aliquot Tube, 5 mL (T914)

Collection Container/Tube:

Preferred: Red top

Acceptable: Serum gel

Submission Container/Tube: Plastic vial

Specimen Volume: 4 mL

Collection Instructions: Centrifuge and aliquot serum into a plastic vial.

Forms:

[If not ordering electronically, complete, print, and send a Neurology Specialty Testing Client Test Request](#) (T732) with the specimen.

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

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
80150	ANNA-1, S	Alphanumeric		33615-6
81596	GAD65 Ab Assay, S	Numeric	nmol/L	30347-9
83076	PCA-Tr, S	Alphanumeric		84926-5
61516	NMDA-R Ab CBA, S	Alphanumeric		93503-1
61518	AMPA-R Ab CBA, S	Alphanumeric		93489-3
61519	GABA-B-R Ab CBA, S	Alphanumeric		93428-1
38324	NMO/AQP4 FACS, S	Alphanumeric		43638-6
64279	LGI1-IgG CBA, S	Alphanumeric		94287-0
64281	CASPR2-IgG CBA, S	Alphanumeric		94285-4
65563	MOG FACS, S	Alphanumeric		90248-6
64933	DPPX Ab CBA, S	Alphanumeric		94676-4
64928	mGluR1 Ab IFA, S	Alphanumeric		94347-2
605155	GFAP IFA, S	Alphanumeric		94346-4
605131	Peds Autoimmune CNS Interp, S	Alphanumeric		69048-7
618907	IFA Notes	Alphanumeric		48767-8
615867	Neurochondrin IFA, S	Alphanumeric		101452-1

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
PCSI	Peds Autoimmune CNS Interp, S			Yes	No
AMPCS	AMPA-R Ab CBA, S	1	86255	Yes	No
ANN1S	Anti-Neuronal Nuclear Ab, Type 1	1	86255	Yes	No
CS2CS	CASPR2-IgG CBA, S	1	86255	Yes	No
DPPCS	DPPX Ab CBA, S	1	86255	Yes	No
GABCS	GABA-B-R Ab CBA, S	1	86255	Yes	No
GD65S	GAD65 Ab Assay, S	1	86341	Yes	Yes
GFAIS	GFAP IFA, S	1	86255	Yes	No
LG1CS	LGI1-IgG CBA, S	1	86255	Yes	No
GL1IS	mGluR1 Ab IFA, S	1	86255	Yes	No
MOGFS	MOG FACS, S	1	86363	Yes	Yes
NCDIS	Neurochondrin IFA, S	1	86255	Yes	No
NMDCS	NMDA-R Ab CBA, S	1	86255	Yes	No
NMOFS	NMO/AQP4 FACS, S	1	86053	Yes	Yes
PCATR	Purkinje Cell Cytoplasmic Ab Type Tr	1	86255	Yes	No

CPT Code Information:

- 86341
- 86363
- 86053
- 86255 x 11
- 86256 AMPIS (if appropriate)
- 84182 AN1BS (if appropriate)
- 86256 AN1TS (if appropriate)
- 84182 AN2BS (if appropriate)
- 86256 DPPTS (if appropriate)
- 86256 GABIS (if appropriate)
- 86255 GFACS (if appropriate)
- 86256 GFATS (if appropriate)
- 86255 GL1CS (if appropriate)
- 86256 GL1TS (if appropriate)
- 86363 MOGTS (if appropriate)
- 86255 NDCDCS (if appropriate)
- 86256 NCDTS (if appropriate)
- 86256 NMDIS (if appropriate)
- 86053 NMOTS (if appropriate)
- 84182 PCTBS (if appropriate)
- 86256 PCTTS (if appropriate)

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
AN1BS	ANNA-1 Immunoblot, S	1	84182	No	No
AN2BS	ANNA-2 Immunoblot, S	1	84182	No	No
DPPTS	DPPX Ab IFA Titer, S	1	86256	No	No
GFACS	GFAP CBA, S	1	86255	No	No
GFATS	GFAP IFA Titer, S	1	86256	No	No
GL1CS	mGluR1 Ab CBA, S	1	86255	No	No
GL1TS	mGluR1 Ab IFA Titer, S	1	86256	No	No
MOGTS	MOG FACS Titer, S	1	86363	No	No
NMDIS	NMDA-R Ab IF Titer Assay, S	1	86256	No	No
NMOTS	NMO/AQP4 FACS Titer, S	1	86053	No	No
PCTBS	PCA-Tr Immunoblot, S	1	84182	No	No
AN1TS	ANNA-1 Titer, S	1	86256	No	No
GABIS	GABA-B-R Ab IF Titer Assay, S	1	86256	No	No
NDCDCS	Neurochondrin CBA, S	1	86255	No	No
NCDTS	Neurochondrin IFA Titer, S	1	86256	No	No
PCTTS	PCA-Tr Titer, S	1	86256	No	No
AMPIS	AMPA-R Ab IF Titer Assay, S	1	86256	No	No

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
AMPIS	61504	AMPA-R Ab IF Titer Assay, S	Alphanumeric	titer	93490-1
GABIS	61505	GABA-B-R Ab IF Titer Assay, S	Alphanumeric	titer	93427-3
NMDIS	61497	NMDA-R Ab IF Titer Assay, S	Alphanumeric	titer	In Process
NMOTS	64557	NMO/AQP4 FACS Titer, S	Alphanumeric	titer	86241-7
MOGTS	65564	MOG FACS Titer, S	Alphanumeric	titer	In Process
DPPTS	64992	DPPX Ab IFA Titer, S	Alphanumeric	titer	94675-6
GL1CS	64932	mGluR1 Ab CBA, S	Alphanumeric		93498-4
GL1TS	64990	mGluR1 Ab IFA Titer, S	Alphanumeric	titer	93499-2
GFATS	605133	GFAP IFA Titer, S	Alphanumeric	titer	93423-2
GFACS	605153	GFAP CBA, S	Alphanumeric		93424-0
AN2BS	607262	ANNA-2 Immunoblot, S	Alphanumeric		94387-8
AN1BS	607260	ANNA-1 Immunoblot, S	Alphanumeric		94389-4
PCTBS	607266	PCA-Tr Immunoblot, S	Alphanumeric		82999-4
NCDCS	615865	Neurochondrin CBA, S	Alphanumeric		101450-5
AN1TS	43431	ANNA-1 Titer, S	Alphanumeric	titer	94342-3
NCDTS	616111	Neurochondrin IFA Titer, S	Alphanumeric	titer	In Process
PCTTS	43439	PCA-Tr Titer, S	Alphanumeric	titer	94352-2

Reference Values:

Test ID	Reporting name	Methodology*	Reference value
PCSI	Peds Autoimmune CNS Interp, S	Medical interpretation	Interpretive report
AMPCS	AMPA-R Ab CBA, S	CBA	Negative
ANN1S	Anti-Neuronal Nuclear Ab, Type 1	IFA	Negative
CS2CS	CASPR2-IgG CBA, S	CBA	Negative
DPPCS	DPPX Ab CBA, S	CBA	Negative
GABCS	GABA-B-R Ab CBA, S	CBA	Negative
GD65S	GAD65 Ab Assay, S	RIA	< or =0.02 nmol/L Reference values apply to all ages.
GFAIS	GFAP IFA, S	IFA	Negative
LG1CS	LGI1-IgG CBA, S	CBA	Negative
GL1IS	mGluR1 Ab IFA, S	IFA	Negative
NCDIS	Neurochondrin IFA, S	IFA	Negative
MOGFS	MOG FACS, S	FACS	Negative
NMDCS	NMDA-R Ab CBA, S	CBA	Negative
NMOFS	NMO/AQP4 FACS, S	FACS	Negative
PCATR	Purkinje Cell Cytoplasmic Ab	IFA	Negative

	Type Tr		
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Reflex Information:

Test ID	Reporting name	Methodology	Reference value
AMPIS	AMPA-R Ab IF Titer Assay, S	IFA	<1:240
AN1BS	ANNA-1 Immunoblot, S	IB	Negative
AN1TS	ANNA-1 Titer, S	IFA	<1:240
AN2BS	ANNA-2 Immunoblot, S	IB	Negative
DPPTS	DPPX Ab IFA Titer, S	IFA	<1:240
GABIS	GABA-B-R Ab IF Titer Assay, S	IFA	<1:240
GFACS	GFAP CBA, S	CBA	Negative
GFATS	GFAP IFA Titer, S	IFA	<1:240
GL1CS	mGluR1 Ab CBA, S	CBA	Negative
GL1TS	mGluR1 Ab IFA Titer, S	IFA	<1:240
MOGTS	MOG FACS Titer, S	FACS	<1:20
NCDCS	Neurochondrin CBA, S	CBA	Negative
NCDTS	Neurochondrin IFA Titer, S	IFA	<1:240
NMDIS	NMDA-R Ab IF Titer Assay, S	IFA	<1:240
NMOTS	NMO/AQP4 FACS Titer, S	FACS	<1:5
PCTTS	PCA-Tr Titer, S	IFA	<1:240
PCTBS	PCA-Tr Immunoblot, S	IB	Negative

*Methodology abbreviations:

Immunofluorescence assay (IFA)

Cell-binding assay (CBA)

Fluorescence-activated cell sorting assay (FACS)

Radioimmunoassay (RIA)

Immunoblot (IB)

**Neuron-restricted patterns of IgG staining that do not fulfill criteria for ANNA-1, ANNA-2, or PCA-Tr may be reported as "unclassified anti-neuronal IgG." Complex patterns that include non-neuronal elements may be reported as "uninterpretable."