
Reporting Title: Dementia, Autoimm/Paraneo, S**Performing Location:** Rochester**Ordering Guidance:**

Multiple neurological phenotype-specific autoimmune/paraneoplastic evaluations are available. For more information as well as phenotype-specific testing options, refer to Autoimmune Neurology Test Ordering Guide.

For a list of antibodies performed with each evaluation, see Autoimmune Neurology Antibody Matrix.

Necessary Information:

Provide the following information:

- Relevant clinical information
- Ordering provider name, phone number, mailing address, and e-mail address

Specimen Requirements:

Patient Preparation:

1. For optimal antibody detection, specimen collection is recommended prior to initiation of immunosuppressant medication or intravenous immunoglobulin treatment.
2. This test should not be requested in 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.
3. Patient should have no general anesthetic or muscle-relaxant drugs in the previous 24 hours.

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.

Specimen Minimum Volume:

2.5 mL

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	
	Frozen	28 days	
	Ambient	72 hours	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
34255	Dementia, Interpretation, S	Alphanumeric		69048-7
618894	IFA Notes	Alphanumeric		48767-8
61518	AMPA-R Ab CBA, S	Alphanumeric		93489-3
81722	Amphiphysin Ab, S	Alphanumeric		72327-0
89080	AGNA-1, S	Alphanumeric		84927-3
80150	ANNA-1, S	Alphanumeric		33615-6
80776	ANNA-2, S	Alphanumeric		43187-4
83137	ANNA-3, S	Alphanumeric		43102-3
64281	CASPR2-IgG CBA, S	Alphanumeric		94285-4
83077	CRMP-5-IgG, S	Alphanumeric		72504-4
64930	DPPX Ab IFA, S	Alphanumeric		82976-2
61519	GABA-B-R Ab CBA, S	Alphanumeric		93428-1
81596	GAD65 Ab Assay, S Also used by tests: GD65S	Numeric	nmol/L	30347-9
605155	GFAP IFA, S	Alphanumeric		94346-4
606946	IgLON5 IFA, S	Alphanumeric		96476-7
64279	LGI1-IgG CBA, S	Alphanumeric		94287-0
64928	mGluR1 Ab IFA, S	Alphanumeric		94347-2
615867	Neurochondrin IFA, S	Alphanumeric		101452-1
606964	NIF IFA, S	Alphanumeric		96486-6
61516	NMDA-R Ab CBA, S	Alphanumeric		93503-1
83138	PCA-2, S	Alphanumeric		84925-7
83076	PCA-Tr, S	Alphanumeric		84926-5

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
ADMSI	Dementia, Interpretation, S			Yes	No
AMPCS	AMPA-R Ab CBA, S			Yes	No
AMPHS	Amphiphysin Ab, S			Yes	No
AGN1S	Anti-Glial Nuclear Ab, Type 1			Yes	No
ANN1S	Anti-Neuronal Nuclear Ab, Type 1			Yes	No
ANN2S	Anti-Neuronal Nuclear Ab, Type 2			Yes	No
ANN3S	Anti-Neuronal Nuclear Ab, Type 3			Yes	No
CS2CS	CASPR2-IgG CBA, S			Yes	No
CRMS	CRMP-5-IgG, S			Yes	No
DPPIS	DPPX Ab IFA, S			Yes	No
GABCS	GABA-B-R Ab CBA, S			Yes	No
GD65S	GAD65 Ab Assay, S			Yes	Yes
GFAIS	GFAP IFA, S			Yes	No
IG5IS	IgLON5 IFA, S			Yes	No
LG1CS	LGI1-IgG CBA, S			Yes	No
GL1IS	mGluR1 Ab IFA, S			Yes	No
NCDIS	Neurochondrin IFA, S			Yes	No
NIFIS	NIF IFA, S			Yes	No
NMDCS	NMDA-R Ab CBA, S			Yes	No
PCAB2	Purkinje Cell Cytoplasmic Ab Type 2			Yes	No
PCATR	Purkinje Cell Cytoplasmic Ab Type Tr			Yes	No

CPT Code Information:

86255 x 19

86341

84182-AGNBS (if appropriate)

86256 AGNTS (if appropriate)

86255-AINCS (if appropriate)

86256-AMPIS (if appropriate)

84182-AMIBS (if appropriate)
 84182-AN1BS (if appropriate)
 86256-AN1TS (if appropriate)
 84182-AN2BS (if appropriate)
 86256-AN2TS (if appropriate)
 86256-AN3TS (if appropriate)
 86256-APHTS (if appropriate)
 86256-CRMTS (if appropriate)
 84182-CRMWS (if appropriate)
 86255-DPPCS (if appropriate)
 86256-DPPTS (if appropriate)
 86256-GABIS (if appropriate)
 86255-GFACS (if appropriate)
 86256-GFATS (if appropriate)
 86255-IG5CS (if appropriate)
 86256-IG5TS (if appropriate)
 86255-GL1CS (if appropriate)
 86256-GL1TS (if appropriate)
 86255-NCDCS (if appropriate)
 86256-NC DTS (if appropriate)
 86255-NFHCS (if appropriate)
 86256-NIFTS (if appropriate)
 86255-NFLCS (if appropriate)
 86256-NMDIS (if appropriate)
 86256-PC2TS (if appropriate)
 84182-PCTBS (if appropriate)
 86256-PCTTS (if appropriate)

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
AGNBS	AGNA-1 Immunoblot, S			No	No
AINCS	Alpha Internexin CBA, S			No	No
AMPIS	AMPA-R Ab IF Titer Assay, S			No	No
AMIBS	Amphiphysin Immunoblot, S			No	No
AN1BS	ANNA-1 Immunoblot, S			No	No
AN2BS	ANNA-2 Immunoblot, S			No	No
CRMWS	CRMP-5-IgG Western Blot, S			No	Yes
DPPCS	DPPX Ab CBA, S			No	No
DPPTS	DPPX Ab IFA Titer, S			No	No

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
GABIS	GABA-B-R Ab IF Titer Assay, S			No	No
GFACS	GFAP CBA, S			No	No
GFATS	GFAP IFA Titer, S			No	No
IG5CS	IgLON5 CBA, S			No	No
IG5TS	IgLON5 IFA Titer, S			No	No
GL1CS	mGluR1 Ab CBA, S			No	No
GL1TS	mGluR1 Ab IFA Titer, S			No	No
NFHCS	NIF Heavy Chain CBA, S			No	No
NIFTS	NIF IFA Titer, S			No	No
NFLCS	NIF Light Chain CBA, S			No	No
NMDIS	NMDA-R Ab IF Titer Assay, S			No	No
PCTBS	PCA-Tr Immunoblot, S			No	No
AN1TS	ANNA-1 Titer, S			No	No
AN2TS	ANNA-2 Titer, S			No	No
AN3TS	ANNA-3 Titer, S			No	No
APHTS	Amphiphysin Ab Titer, S			No	No
CRMTS	CRMP-5-IgG Titer, S			No	No
NCDCS	Neurochondrin CBA, S			No	No
NCDTS	Neurochondrin IFA Titer, S			No	No
PC2TS	PCA-2 Titer, S			No	No
PCTTS	PCA-Tr Titer, S			No	No
AGNTS	AGNA-1 Titer, S			No	No

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
AGNBS	607270	AGNA-1 Immunoblot, S	Alphanumeric		83001-8
AINCS	606966	Alpha Internexin CBA, S	Alphanumeric		96483-3
AMPIS	61504	AMPA-R Ab IF Titer Assay, S	Alphanumeric	titer	93490-1
AMIBS	607268	Amphiphysin Immunoblot, S	Alphanumeric		94385-2

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
AN1BS	607260	ANNA-1 Immunoblot, S	Alphanumeric		94389-4
AN2BS	607262	ANNA-2 Immunoblot, S	Alphanumeric		94387-8
CRMWS	83107	CRMP-5-IgG Western Blot, S	Alphanumeric		47401-5
DPPCS	64933	DPPX Ab CBA, S	Alphanumeric		94676-4
DPPTS	64992	DPPX Ab IFA Titer, S	Alphanumeric	titer	94675-6
GABIS	61505	GABA-B-R Ab IF Titer Assay, S	Alphanumeric	titer	93427-3
GFACS	605153	GFAP CBA, S	Alphanumeric		93424-0
GFATS	605133	GFAP IFA Titer, S	Alphanumeric	titer	93423-2
IG5CS	606950	IgLON5 CBA, S	Alphanumeric		96478-3
IG5TS	606948	IgLON5 IFA Titer, S	Alphanumeric	titer	96477-5
GL1CS	64932	mGluR1 Ab CBA, S	Alphanumeric		93498-4
GL1TS	64990	mGluR1 Ab IFA Titer, S	Alphanumeric	titer	93499-2
NFHCS	606968	NIF Heavy Chain CBA, S	Alphanumeric		96484-1
NIFTS	607771	NIF IFA Titer, S	Alphanumeric	titer	96487-4
NFLCS	606970	NIF Light Chain CBA, S	Alphanumeric		96485-8
NMDIS	61497	NMDA-R Ab IF Titer Assay, S	Alphanumeric	titer	In Process
PCTBS	607266	PCA-Tr Immunoblot, S	Alphanumeric		82999-4
AN1TS	43431	ANNA-1 Titer, S	Alphanumeric	titer	94342-3
AN2TS	43432	ANNA-2 Titer, S	Alphanumeric	titer	94343-1
AN3TS	43433	ANNA-3 Titer, S	Alphanumeric	titer	94344-9
APHTS	618165	Amphiphysin Ab Titer, S	Alphanumeric	titer	94340-7
CRMTS	43436	CRMP-5-IgG Titer, S	Alphanumeric	titer	94815-8
NCDCS	615865	Neurochondrin CBA, S	Alphanumeric		101450-5
NCDTS	616111	Neurochondrin IFA Titer, S	Alphanumeric	titer	In Process
PC2TS	43438	PCA-2 Titer, S	Alphanumeric	titer	94351-4
PCTTS	43439	PCA-Tr Titer, S	Alphanumeric	titer	94352-2
AGNTS	43434	AGNA-1 Titer, S	Alphanumeric	titer	94341-5

Reference Values:

Test ID	Reporting name	Methodology	Reference value
ADMSI	Dementia, Interpretation, S	Medical interpretation	NA
AMPCS	AMPA-R Ab CBA, S	CBA	Negative
AMPHS	Amphiphysin Ab, S	IFA	<1:240
AGN1S	Anti-Glial Nuclear Ab, Type 1	IFA	<1:240
ANN1S	Anti-Neuronal Nuclear Ab, Type 1	IFA	<1:240
ANN2S	Anti-Neuronal Nuclear Ab, Type 2	IFA	<1:240
ANN3S	Anti-Neuronal Nuclear Ab, Type 3	IFA	<1:240
CS2CS	CASPR2-IgG CBA, S	CBA	Negative
CRMS	CRMP-5-IgG, S	IFA	<1:240
DPPIS	DPPX Ab IFA, S	IFA	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
IG5IS	IgLON5 IFA, S	IFA	Negative
LG1CS	LGI1-IgG CBA, S	CBA	Negative
GL1IS	mGluR1 Ab IFA, S	IFA	Negative
NCDIS	Neurochondrin IFA, S	IFA	Negative
NIFIS	NIF IFA, S	IFA	Negative
NMDCS	NMDA-R Ab CBA, S	CBA	Negative
PCAB2	Purkinje Cell Cytoplasmic Ab Type 2	IFA	<1:240
PCATR	Purkinje Cell Cytoplasmic Ab Type Tr	IFA	<1:240

Reflex Information:

Test ID	Reporting name	Methodology	Reference value
AGNBS	AGNA-1 Immunoblot, S	IB	Negative
AGNTS	AGNA-1 Titer, S	IFA	<1:240
AINCS	Alpha Internexin CBA, S	CBA	Negative
AMPIS	AMPA-R Ab IF Titer Assay, S	IFA	<1:240

AMIBS	Amphiphysin Immunoblot, S	IB	Negative
AN1BS	ANNA-1 Immunoblot, S	IB	Negative
AN1TS	ANNA-1 Titer, S	IFA	<1:240
AN2BS	ANNA-2 Immunoblot, S	IB	Negative
AN2TS	ANNA-2 Titer, S	IFA	<1:240
AN3TS	ANNA-3 Titer, S	IFA	<1:240
APHTS	Amphiphysin Ab Titer, S	IFA	<1:240
CRMTS	CRMP-5-IgG Titer, S	IFA	<1:240
CRMWS	CRMP-5-IgG Western Blot, S	WB	Negative
DPPCS	DPPX Ab CBA, S	CBA	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
IG5CS	IgLON5 CBA, S	CBA	Negative
IG5TS	IgLON5 IFA Titer, S	IFA	<1:240
GL1CS	mGluR1 Ab CBA, S	CBA	Negative
GL1TS	mGluR1 Ab IFA Titer, S	IFA	<1:240
NCDCS	Neurochondrin CBA, S	CBA	Negative
NCDTS	Neurochondrin IFA Titer, S	IFA	<1:240
NFHCS	NIF Heavy Chain CBA, S	CBA	Negative
NIFTS	NIF IFA Titer, S	IFA	<1:240
NFLCS	NIF Light Chain CBA, S	CBA	Negative
NMDIS	NMDA-R Ab IF Titer Assay, S	IFA	<1:240
PC2TS	PCA-2 Titer, S	IFA	<1:240
PCTTS	PCA-Tr Titer, S	IFA	<1:240
PCTBS	PCA-Tr Immunoblot, S	IB	Negative

*Methodology abbreviations used:

Immunofluorescence assay (IFA)

Cell-binding assay (CBA)

Western blot (WB)

Radioimmunoassay (RIA)

Immunoblot (IB)

Neuron-restricted patterns of IgG staining that do not fulfill criteria for ANNA-1, ANNA-2, ANNA-3 CRMP-5-IgG, PCA-1, PCA-2, or PCA-Tr may be reported as "unclassified anti-neuronal IgG." Complex patterns that include nonneuronal elements may be reported as

"uninterpretable."

Note: CRMP-5 titers lower than 1:240 are detectable by recombinant CRMP-5 Western blot analysis. CRMP-5 Western blot analysis will be done on request on stored serum (held 4 weeks). This supplemental testing is recommended in cases of chorea, vision loss, cranial neuropathy, and myelopathy. Call the Neuroimmunology Laboratory at 800-533-1710 to request CRMP-5 Western blot.