

Reporting Title: Axonal, Autoimm/Paraneo, 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 prior to initiation of 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®
89080	AGNA-1, S	Alphanumeric		84927-3
81722	Amphiphysin Ab, S	Alphanumeric		72327-0
80150	ANNA-1, S	Alphanumeric		33615-6
83137	ANNA-3, S	Alphanumeric		43102-3
83107	CRMP-5-IgG Western Blot, S	Alphanumeric		47401-5
83138	PCA-2, S	Alphanumeric		84925-7
9477	PCA-1, S	Alphanumeric		84924-0
64279	LGI1-IgG CBA, S	Alphanumeric		94287-0
64281	CASPR2-IgG CBA, S	Alphanumeric		94285-4
605155	GFAP IFA, S	Alphanumeric		94346-4
606975	Autoimmune Axonal Interp, S	Alphanumeric		69048-7
618900	IFA Notes	Alphanumeric		48767-8
606964	NIF IFA, S	Alphanumeric		96486-6
606950	IgLON5 CBA, S	Alphanumeric		96478-3
615863	AP3B2 IFA, S	Alphanumeric		101907-4

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
AIAEI	Autoimmune Axonal Interp, S			Yes	No
AMPHS	Amphiphysin Ab, S	1	86255	Yes	No
ANN1S	Anti-Neuronal Nuclear Ab, Type 1	1	86255	Yes	No
ANN3S	Anti-Neuronal Nuclear Ab, Type 3	1	86255	Yes	No
AGN1S	Anti-Glial Nuclear Ab, Type 1	1	86255	Yes	No
APBIS	AP3B2 IFA, S	1	86255	Yes	No
CS2CS	CASPR2-IgG CBA, S	1	86255	Yes	No
CRMWS	CRMP-5-IgG Western Blot, S	1	84182	Yes	Yes
GFAIS	GFAP IFA, S	1	86255	Yes	No
IG5CS	IgLON5 CBA, S	1	86255	Yes	No
LG1CS	LGI1-IgG CBA, S	1	86255	Yes	No
NIFIS	NIF IFA, S	1	86255	Yes	No
PCABP	Purkinje Cell Cytoplasmic Ab Type 1	1	86255	Yes	No
PCAB2	Purkinje Cell Cytoplasmic Ab Type 2	1	86255	Yes	No

CPT Code Information:

- 86255 x 12
- 84182
- 84182 AGNBS (if appropriate)
- 86256 AGNTS (if appropriate)
- 86255 AINCS (if appropriate)
- 84182 AMIBS (if appropriate)
- 84182 AN1BS (if appropriate)
- 86256 AN1TS (if appropriate)
- 84182 AN2BS (if appropriate)
- 86256 AN3TS (if appropriate)
- 86255 APBCS (if appropriate)
- 86256 APBTS (if appropriate)
- 86256 APHTS (if appropriate)
- 86256 CRMTS (if appropriate)
- 86255 GFACS (if appropriate)
- 86256 GFATS (if appropriate)
- 86256 IG5TS (if appropriate)
- 86255 NFHCS (if appropriate)
- 86255 NFLCS (if appropriate)
- 86256 NIFTS (if appropriate)
- 84182 PC1BS (if appropriate)
- 86256 PC1TS (if appropriate)
- 86256 PC2TS (if appropriate)

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
AGNBS	AGNA-1 Immunoblot, S	1	84182	No	No
AINCS	Alpha Internexin CBA, S	1	86255	No	No
AMIBS	Amphiphysin Immunoblot, S	1	84182	No	No
AN1BS	ANNA-1 Immunoblot, S	1	84182	No	No
AN1TS	ANNA-1 Titer, S	1	86256	No	No
AN2BS	ANNA-2 Immunoblot, S	1	84182	No	No
AN3TS	ANNA-3 Titer, S	1	86256	No	No
APBCS	AP3B2 CBA, S	1	86255	No	No
APBTS	AP3B2 IFA Titer, S	1	86256	No	No
APHTS	Amphiphysin Ab Titer, S	1	86256	No	No
CRMTS	CRMP-5-IgG Titer, S	1	86256	No	No
GFACS	GFAP CBA, S	1	86255	No	No
GFATS	GFAP IFA Titer, S	1	86256	No	No

NFHCS	NIF Heavy Chain CBA, S	1	86255	No	No
NFLCS	NIF Light Chain CBA, S	1	86255	No	No
NIFTS	NIF IFA Titer, S	1	86256	No	No
PC1BS	PCA-1 Immunoblot, S	1	84182	No	No
PC1TS	PCA-1 Titer, S	1	86256	No	No
PC2TS	PCA-2 Titer, S	1	86256	No	No
AGNTS	AGNA-1 Titer, S	1	86256	No	No
IG5TS	IgLON5 IFA Titer, S	1	86256	No	No

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
GFATS	605133	GFAP IFA Titer, S	Alphanumeric	titer	93423-2
GFACS	605153	GFAP CBA, S	Alphanumeric		93424-0
AGNBS	607270	AGNA-1 Immunoblot, S	Alphanumeric		83001-8
AMIBS	607268	Amphiphysin Immunoblot, S	Alphanumeric		94385-2
AN2BS	607262	ANNA-2 Immunoblot, S	Alphanumeric		94387-8
AN1BS	607260	ANNA-1 Immunoblot, S	Alphanumeric		94389-4
PC1BS	607264	PCA-1 Immunoblot, S	Alphanumeric		94271-4
AINCS	606966	Alpha Internexin CBA, S	Alphanumeric		96483-3
NFHCS	606968	NIF Heavy Chain CBA, S	Alphanumeric		96484-1
NFLCS	606970	NIF Light Chain CBA, S	Alphanumeric		96485-8
NIFTS	607771	NIF IFA Titer, S	Alphanumeric	titer	96487-4
IG5TS	606948	IgLON5 IFA Titer, S	Alphanumeric	titer	96477-5
APBCS	615861	AP3B2 CBA, S	Alphanumeric		101907-4
PC2TS	43438	PCA-2 Titer, S	Alphanumeric	titer	94351-4
AN3TS	43433	ANNA-3 Titer, S	Alphanumeric	titer	94344-9
AGNTS	43434	AGNA-1 Titer, S	Alphanumeric	titer	94341-5
PC1TS	43437	PCA-1 Titer, S	Alphanumeric	titer	94350-6
APHTS	618165	Amphiphysin Ab Titer, S	Alphanumeric	titer	94340-7
APBTS	616109	AP3B2 IFA Titer, S	Alphanumeric	titer	101908-2
AN1TS	43431	ANNA-1 Titer, S	Alphanumeric	titer	94342-3
CRMTS	43436	CRMP-5-IgG Titer, S	Alphanumeric	titer	94815-8

Reference Values:

Test ID	Reporting name	Methodology	Reference value
AIAEI	Autoimmune Axonal Interp, S	Medical interpretation	NA
AGN1S	Anti-Glial Nuclear Ab, Type 1	IFA	Negative
AMPHS	Amphiphysin Ab, S	IFA	Negative
ANN1S	ANNA-1, S	IFA	Negative

ANN3S	ANNA-3, S	IFA	Negative
APBIS	AP3B2 IFA, S	IFA	Negative
CRMWS	CRMP-5-IgG Western Blot, S	WB	Negative
CS2CS	CASPR2-IgG CBA, S	CBA	Negative
IG5CS	IgLON5 CBA, S	CBA	Negative
LG1CS	LG11-IgG CBA, S	CBA	Negative
NIFIS	NIF IFA, S	IFA	Negative
PCAB2	PCA-2, S	IFA	Negative
PCABP	PCA-1, S	IFA	Negative
GFAIS	GFAP IFA, S	IFA	Negative

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
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
AN3TS	ANNA-3 Titer, S	IFA	<1:240
APBCS	AP3B2 CBA, S	CBA	Negative
APBTS	AP3B2 IFA Titer, S	IFA	<1:240
APHTS	Amphiphysin Ab Titer, S	IFA	<1:240
CRMTS	CRMP-5-IgG Titer, S	IFA	<1:240
GFACS	GFAP CBA, S	CBA	Negative
GFATS	GFAP IFA Titer, S	IFA	<1:240
IG5TS	IgLON5 IFA Titer, S	IFA	<1:240
NFHCS	NIF Heavy Chain CBA, S	CBA	Negative
NFLCS	NIF Light Chain CBA, S	CBA	Negative
NIFTS	NIF IFA Titer, S	IFA	<1:240
PC1BS	PCA-1 Immunoblot, S	IB	Negative
PC1TS	PCA-1 Titer, S	IFA	<1:240
PC2TS	PCA-2 Titer, S	IFA	<1:240

*Methodology abbreviations:

Immunofluorescence assay (IFA)

Cell-binding assay (CBA)

Western blot (WB)

Immunoblot (IB)

Neuron-restricted patterns of IgG staining that do not fulfill criteria for ANNA-1, ANNA-2, CRMP-5-IgG, PCA-1, or PCA-2

Test Definition: AIAES

Axonal Neuropathy,
Autoimmune/Paraneoplastic Evaluation,
Serum

may be reported as "unclassified anti-neuronal IgG." Complex patterns that include nonneuronal elements may be reported as "uninterpretable."