

Reporting Title: Movement, Autoimm/Paraneo, CSF**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:

For optimal antibody detection, specimen collection is recommended prior to initiation of immunosuppressant medication, or corticosteroid or intravenous immunoglobulin (IVIg) treatment.

Container/Tube: Sterile vial

Preferred: Vial number 1

Acceptable: Any vial

Specimen Volume: 4 mL

Specimen Minimum Volume:

3.5 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
CSF	Refrigerated (preferred)	28 days	
	Frozen	28 days	
	Ambient	72 hours	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
601997	Movement Disorder Interp, CSF	Alphanumeric		69048-7
618902	IFA Notes	Alphanumeric		48767-8
61514	AMPA-R Ab CBA, CSF	Alphanumeric		93491-9
5906	Amphiphysin Ab, CSF	Alphanumeric		90815-2
89079	AGNA-1, CSF	Alphanumeric		90827-7
3852	ANNA-1, CSF	Alphanumeric		44768-0
7472	ANNA-2, CSF	Alphanumeric		56959-0
21633	ANNA-3, CSF	Alphanumeric		90836-8
615862	AP3B2 IFA, CSF	Alphanumeric		101907-4
64282	CASPR2-IgG CBA, CSF	Alphanumeric		94286-2
21747	CRMP-5-IgG Western Blot, CSF Also used by tests: CRMWC	Alphanumeric		53707-6
64929	DPPX Ab IFA, CSF	Alphanumeric		82989-5
61515	GABA-B-R Ab CBA, CSF	Alphanumeric		93426-5
21702	GAD65 Ab Assay, CSF Also used by tests: GD65C	Numeric	nmol/L	94359-7
605156	GFAP IFA, CSF	Alphanumeric		94360-5
606959	GRAF1 IFA, CSF	Alphanumeric		96473-4
606947	IgLON5 IFA, CSF	Alphanumeric		96479-1
606953	ITPR1 IFA, CSF	Alphanumeric		96467-6
610580	KLHL11 Ab CBA, CSF Also used by tests: K11CC	Alphanumeric		99073-9
64280	LG11-IgG CBA, CSF	Alphanumeric		94288-8
64927	mGluR1 Ab IFA, CSF	Alphanumeric		94361-3
615866	Neurochondrin IFA, CSF	Alphanumeric		101451-3
606965	NIF IFA, CSF	Alphanumeric		96490-8
61513	NMDA-R Ab CBA, CSF	Alphanumeric		93502-3
21631	PCA-Tr, CSF	Alphanumeric		90845-9
3988	PCA-1, CSF	Alphanumeric		90841-8

Result ID	Reporting Name	Type	Unit	LOINC®
21632	PCA-2, CSF	Alphanumeric		90843-4
615870	Septin-5 IFA, CSF	Alphanumeric		101461-2
615874	Septin-7 IFA, CSF	Alphanumeric		101464-6

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
MDCI	Movement Disorder Interp, CSF			Yes	No
AMPCC	AMPA-R Ab CBA, CSF			Yes	No
AMPHC	Amphiphysin Ab, CSF			Yes	No
AGN1C	Anti-Glial Nuclear Ab, Type 1			Yes	No
ANN1C	Anti-Neuronal Nuclear Ab, Type 1			Yes	No
ANN2C	Anti-Neuronal Nuclear Ab, Type 2			Yes	No
ANN3C	Anti-Neuronal Nuclear Ab, Type 3			Yes	No
APBIC	AP3B2 IFA, CSF			Yes	No
CS2CC	CASPR2-IgG CBA, CSF			Yes	No
CRMWC	CRMP-5-IgG Western Blot, CSF			Yes	Yes
DPPIC	DPPX Ab IFA, CSF			Yes	No
GABCC	GABA-B-R Ab CBA, CSF			Yes	No
GD65C	GAD65 Ab Assay, CSF			Yes	Yes
GFAIC	GFAP IFA, CSF			Yes	No
GRFIC	GRAF1 IFA, CSF			Yes	No
IG5IC	IgLON5 IFA, CSF			Yes	No
ITPIC	ITPR1 IFA, CSF			Yes	No
K11CC	KLHL11 Ab CBA, CSF			Yes	Yes
LG1CC	LGI1-IgG CBA, CSF			Yes	No

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
GL1IC	mGluR1 Ab IFA, CSF			Yes	No
NCDIC	Neurochondrin IFA, CSF			Yes	No
NIFIC	NIF IFA, CSF			Yes	No
NMDCC	NMDA-R Ab CBA, CSF			Yes	No
PCTRC	Purkinje Cell Cytoplasmic Ab Type Tr			Yes	No
PCA1C	Purkinje Cell Cytoplasmic Ab Type 1			Yes	No
PCA2C	Purkinje Cell Cytoplasmic Ab Type 2			Yes	No
SP5IC	Septin-5 IFA, CSF			Yes	No
SP7IC	Septin-7 IFA, CSF			Yes	No

CPT Code Information:

86255 x24
 84182
 0432U
 86341
 84182-AGNBC (if appropriate)
 86256-GNTC (if appropriate)
 86255-AINCC (if appropriate)
 84182-AMIBC (if appropriate)
 86256-AMPIC (if appropriate)
 84182-AN1BC (if appropriate)
 86256-AN1TC (if appropriate)
 84182-AN2BC (if appropriate)
 86256-AN2TC (if appropriate)
 86256-AN3TC (if appropriate)
 86255-APBCC (if appropriate)
 86256-APBTC (if appropriate)
 86256-APHTC (if appropriate)
 86256-CRMTC (if appropriate)
 86255-DPPCC (if appropriate)
 86256-DPPTC (if appropriate)
 86256-GABIC (if appropriate)
 86255-GFACC (if appropriate)
 86256-GFATC (if appropriate)
 86255-GL1CC (if appropriate)
 86256-GL1TC (if appropriate)
 86255-GRFCC (if appropriate)
 86256-GRFTC (if appropriate)
 86255-IG5CC (if appropriate)
 86256-IG5TC (if appropriate)
 86255-ITPCC (if appropriate)

86256-ITPTC (if appropriate)
 86256-K11TC (if appropriate)
 86255-NCDCC (if appropriate)
 86256-NCDTC (if appropriate)
 86255-NFHCC (if appropriate)
 86255-NFLCC (if appropriate)
 86256-NIFTC (if appropriate)
 86256-NMDIC (if appropriate)
 84182-PC1BC (if appropriate)
 86256-PC1TC (if appropriate)
 86256-PC2TC (if appropriate)
 84182-PCTBC (if appropriate)
 86256-PCTTC (if appropriate)
 86255-SP5CC (if appropriate)
 86256-SP5TC (if appropriate)
 86255-SP7CC (if appropriate)
 86256-SP7TC (if appropriate)

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
AGNBC	AGNA-1 Immunoblot, CSF			No	No
AINCC	Alpha Internexin CBA, CSF			No	No
AMPIC	AMPA-R Ab IF Titer Assay, CSF			No	No
AMIBC	Amphiphysin Immunoblot, CSF			No	No
AN1BC	ANNA-1 Immunoblot, CSF			No	No
AN2BC	ANNA-2 Immunoblot, CSF			No	No
DPPTC	DPPX Ab IFA Titer, CSF			No	No
DPPCC	DPPX Ab CBA, CSF			No	No
GABIC	GABA-B-R Ab IF Titer Assay, CSF			No	No
GRFCC	GRAF1 CBA, CSF			No	No
GRFTC	GRAF1 IFA Titer, CSF			No	No
IG5CC	IgLON5 CBA, CSF			No	No
IG5TC	IgLON5 IFA Titer, CSF			No	No
ITPCC	ITPR1 CBA, CSF			No	No
ITPTC	ITPR1 IFA Titer, CSF			No	No

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
GL1TC	mGluR1 Ab IFA Titer, CSF			No	No
GL1CC	mGluR1 Ab CBA, CSF			No	No
NFHCC	NIF Heavy Chain CBA, CSF			No	No
NIFTC	NIF IFA Titer, CSF			No	No
NFLCC	NIF Light Chain CBA, CSF			No	No
NMDIC	NMDA-R Ab IF Titer Assay, CSF			No	No
PC1BC	PCA-1 Immunoblot, CSF			No	No
PCTBC	PCA-Tr Immunoblot, CSF			No	No
AN1TC	ANNA-1 Titer, CSF			No	No
AN2TC	ANNA-2 Titer, CSF			No	No
AN3TC	ANNA-3 Titer, CSF			No	No
APBCC	AP3B2 CBA, CSF			No	No
APBTC	AP3B2 IFA Titer, CSF			No	No
APHTC	Amphiphysin Ab Titer, CSF			No	No
CRMTC	CRMP-5-IgG Titer, CSF			No	No
GFACC	GFAP CBA, CSF			No	No
GFATC	GFAP IFA Titer, CSF			No	No
NCDCC	Neurochondrin CBA, CSF			No	No
NCDTC	Neurochondrin IFA Titer, CSF			No	No
PC1TC	PCA-1 Titer, CSF			No	No
PC2TC	PCA-2 Titer, CSF			No	No
PCTTC	PCA-Tr Titer, CSF			No	No
SP5CC	Septin-5 CBA, CSF			No	No
SP5TC	Septin-5 IFA Titer, CSF			No	No
SP7CC	Septin-7 CBA, CSF			No	No
SP7TC	Septin-7 IFA Titer, CSF			No	No
AGNTC	AGNA-1 Titer, CSF			No	No
K11TC	KLHL11 Ab IFA Titer, CSF			No	No

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
K11TC	610582	KLHL11 Ab IFA Titer, CSF	Alphanumeric	titer	99071-3
AGNBC	607271	AGNA-1 Immunoblot, CSF	Alphanumeric		94383-7
AINCC	606967	Alpha Internexin CBA, CSF	Alphanumeric		96482-5
AMPIC	61524	AMPA-R Ab IF Titer Assay, CSF	Alphanumeric	titer	93492-7
AMIBC	607269	Amphiphysin Immunoblot, CSF	Alphanumeric		94384-5
AN1BC	607261	ANNA-1 Immunoblot, CSF	Alphanumeric		94390-2
AN2BC	607263	ANNA-2 Immunoblot, CSF	Alphanumeric		94388-6
DPPTC	64991	DPPX Ab IFA Titer, CSF	Alphanumeric	titer	94284-7
DPPCC	64934	DPPX Ab CBA, CSF	Alphanumeric		94283-9
GABIC	61525	GABA-B-R Ab IF Titer Assay, CSF	Alphanumeric	titer	93425-7
GRFCC	606963	GRAF1 CBA, CSF	Alphanumeric		96475-9
GRFTC	606961	GRAF1 IFA Titer, CSF	Alphanumeric	titer	96474-2
IG5CC	606951	IgLON5 CBA, CSF	Alphanumeric		96481-7
IG5TC	606949	IgLON5 IFA Titer, CSF	Alphanumeric	titer	96480-9
ITPCC	606957	ITPR1 CBA, CSF	Alphanumeric		96468-4
ITPTC	606955	ITPR1 IFA Titer, CSF	Alphanumeric	titer	96469-2
GL1TC	64989	mGluR1 Ab IFA Titer, CSF	Alphanumeric	titer	93501-5
GL1CC	64931	mGluR1 Ab CBA, CSF	Alphanumeric		93500-7
NFHCC	606969	NIF Heavy Chain CBA, CSF	Alphanumeric		96488-2
NIFTC	607772	NIF IFA Titer, CSF	Alphanumeric	titer	96491-6
NFLCC	606971	NIF Light Chain CBA, CSF	Alphanumeric		96489-0
NMDIC	61523	NMDA-R Ab IF Titer Assay, CSF	Alphanumeric	titer	In Process
PC1BC	607265	PCA-1 Immunoblot, CSF	Alphanumeric		94272-2
PCTBC	607267	PCA-Tr Immunoblot, CSF	Alphanumeric		94386-0
AN1TC	43440	ANNA-1 Titer, CSF	Alphanumeric	titer	94356-3
AN2TC	43441	ANNA-2 Titer, CSF	Alphanumeric	titer	94357-1
AN3TC	43442	ANNA-3 Titer, CSF	Alphanumeric	titer	94358-9
APBCC	615860	AP3B2 CBA, CSF	Alphanumeric		101907-4
APBTC	616110	AP3B2 IFA Titer, CSF	Alphanumeric	titer	101908-2

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
APHTC	618164	Amphiphysin Ab Titer, CSF	Alphanumeric	titer	94354-8
CRMTC	43445	CRMP-5-IgG Titer, CSF	Alphanumeric	titer	94706-9
GFACC	605154	GFAP CBA, CSF	Alphanumeric		93422-4
GFATC	605134	GFAP IFA Titer, CSF	Alphanumeric	titer	93421-6
NCDCC	615864	Neurochondrin CBA, CSF	Alphanumeric		101449-7
NCDTC	616112	Neurochondrin IFA Titer, CSF	Alphanumeric	titer	101453-9
PC1TC	43446	PCA-1 Titer, CSF	Alphanumeric	titer	94363-9
PC2TC	43447	PCA-2 Titer, CSF	Alphanumeric	titer	94364-7
PCTTC	43448	PCA-Tr Titer, CSF	Alphanumeric	titer	94362-1
SP5CC	615868	Septin-5 CBA, CSF	Alphanumeric		In Process
SP5TC	616114	Septin-5 IFA Titer, CSF	Alphanumeric	titer	101459-6
SP7CC	615872	Septin-7 CBA, CSF	Alphanumeric		In Process
SP7TC	616116	Septin-7 IFA Titer, CSF	Alphanumeric	titer	101457-0
AGNTC	43443	AGNA-1 Titer, CSF	Alphanumeric	titer	94355-5

Reference Values:

Test ID	Reporting name	Methodology*	Reference value
MDCI	Movement Disorder Interp, CSF	Medical interpretation	N/A
AMPCC	AMPA-R Ab CBA, CSF	CBA	Negative
AMPHC	Amphiphysin Ab, CSF	IFA	Negative
AGN1C	Anti-Glial Nuclear Ab, Type 1	IFA	Negative
ANN1C	Anti-Neuronal Nuclear Ab, Type 1	IFA	Negative
ANN2C	Anti-Neuronal Nuclear Ab, Type 2	IFA	Negative
ANN3C	Anti-Neuronal Nuclear Ab, Type 3	IFA	Negative
APBIC	AP3B2 IFA, CSF	IFA	Negative
CS2CC	CASPR2-IgG CBA, CSF	CBA	Negative
CRMWC	CRMP-5-IgG Western Blot, CSF	WB	Negative
DPPIC	DPPX Ab IFA, CSF	IFA	Negative
GABCC	GABA-B-R Ab CBA, CSF	CBA	Negative

GD65C	GAD65 Ab Assay, CSF	RIA	< or =0.02 nmol/L Reference values apply to all ages.
GRFIC	GRAF1 IFA, CSF	IFA	Negative
GFAIC	GFAP IFA, CSF	IFA	Negative
IG5IC	IgLON5 IFA, CSF	IFA	Negative
ITPIC	ITPR1 IFA, CSF	IFA	Negative
K11CC	KLHL11 Ab CBA, CSF	CBA	Negative
LG1CC	LG1-IgG CBA, CSF	CBA	Negative
GL1IC	mGluR1 Ab IFA, CSF	IFA	Negative
NCDIC	Neurochondrin IFA, CSF	IFA	Negative
NIFIC	NIF IFA, CSF	IFA	Negative
NMDCC	NMDA-R Ab CBA, CSF	CBA	Negative
PCTRC	Purkinje Cell Cytoplasmic Ab Type Tr	IFA	Negative
PCA1C	Purkinje Cell Cytoplasmic Ab Type 1	IFA	Negative
PCA2C	Purkinje Cell Cytoplasmic Ab Type 2	IFA	Negative
SP5IC	Septin-5 IFA, CSF	IFA	Negative
SP7IC	Septin-7 IFA, CSF	IFA	Negative

Reflex Information:

Test ID	Reporting name	Methodology*	Reference value
AGNBC	AGNA-1 Immunoblot, CSF	IB	Negative
AGNTC	AGNA-1 Titer, CSF	IFA	<1:2
AINCC	Alpha Internexin CBA, CSF	CBA	Negative
AMPIC	AMPA-R Ab IF Titer Assay, CSF	IFA	<1:2
AMIBC	Amphiphysin Immunoblot, CSF	IB	Negative
AN1BC	ANNA-1 Immunoblot, CSF	IB	Negative
AN1TC	ANNA-1 Titer, CSF	IFA	<1:2
AN2BC	ANNA-2 Immunoblot, CSF	IB	Negative
AN2TC	ANNA-2 Titer, CSF	IFA	<1:2
AN3TC	ANNA-3 Titer, CSF	IFA	<1:2
APBCC	AP3B2 CBA, CSF	CBA	Negative

APBTC	AP3B2 IFA Titer, CSF	IFA	<1:2
APHTC	Amphiphysin Ab Titer, CSF	IFA	<1:2
CRMTC	CRMP-5-IgG Titer, CSF	IFA	<1:2
DPPTC	DPPX Ab IFA Titer, CSF	IFA	<1:2
DPPCC	DPPX Ab CBA, CSF	CBA	Negative
GABIC	GABA-B-R Ab IF Titer Assay, CSF	IFA	<1:2
GFACC	GFAP CBA, CSF	CBA	Negative
GFATC	GFAP IFA Titer, CSF	IFA	<1:2
GRFCC	GRAF1 CBA, CSF	CBA	Negative
GRFTC	GRAF1 IFA Titer, CSF	IFA	<1:2
IG5CC	IgLON5 CBA, CSF	CBA	Negative
IG5TC	IgLON5 IFA Titer, CSF	IFA	<1:2
ITPCC	ITPR1 CBA, CSF	CBA	Negative
ITPTC	ITPR1 IFA Titer, CSF	IFA	<1:2
K11TC	KLHL11 Ab IFA Titer, CSF	IFA	<1:2
GL1TC	mGluR1 Ab IFA Titer, CSF	IFA	<1:2
GL1CC	mGluR1 Ab CBA, CSF	CBA	Negative
NCDCC	Neurochondrin CBA, CSF	CBA	Negative
NCDTC	Neurochondrin IFA Titer, CSF	IFA	<1:2
NFHCC	NIF Heavy Chain CBA, CSF	CBA	Negative
NIFTC	NIF IFA Titer, CSF	IFA	<1:2
NFLCC	NIF Light Chain CBA, CSF	CBA	Negative
NMDIC	NMDA-R Ab IF Titer Assay, CSF	IFA	<1:2
PC1BC	PCA-1 Immunoblot, CSF	IB	Negative
PC1TC	PCA-1 Titer, CSF	IFA	<1:2
PC2TC	PCA-2 Titer, CSF	IFA	<1:2
PCTTC	PCA-Tr Titer, CSF	IFA	<1:2
PCTBC	PCA-Tr Immunoblot, CSF	IB	Negative
SP5CC	Septin-5 CBA, CSF	CBA	Negative
SP5TC	Septin-5 IFA Titer, CSF	IFA	<1:2
SP7CC	Septin-7 CBA, CSF	CBA	Negative
SP7TC	Septin-7 IFA Titer, CSF	IFA	<1:2

*Methodology abbreviations:
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."