
Reporting Title: Paraneoplas Autoantibody Eval,CSF**Performing Location:** Rochester**Ordering Guidance:**

This test no longer contains all known, clinically relevant antibodies for patients suspected of autoimmune neurological disorders. Instead, consider a comprehensive neurological phenotype-specific autoimmune/paraneoplastic evaluation (eg, encephalopathy, movement disorders, myelopathy, axonal neuropathy). For more information as well as phenotype-specific testing options, refer to Autoimmune Neurology Test Ordering Guide or the Neurology specialty website.

Additional Testing Requirements:

In patients with a history of tobacco use or other lung cancer risk, or if thymoma is suspected, PAVAL / Paraneoplastic Autoantibody Evaluation, Serum is also recommended.

Necessary Information:

Provide the following information:

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

Specimen Requirements:

Container/Tube: Sterile vial

Preferred: Vial number 2

Acceptable: Any vial

Specimen Volume: 4 mL

Specimen Minimum Volume:

2 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	
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Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
34271	Paraneoplastic Interpretation, CSF	Alphanumeric		57771-8
619519	IFA Notes	Alphanumeric		48767-8
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
21650	CRMP-5-IgG, CSF	Alphanumeric		63216-6
21631	PCA-Tr, CSF	Alphanumeric		90845-9
3988	PCA-1, CSF	Alphanumeric		90841-8
21632	PCA-2, CSF	Alphanumeric		90843-4

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
PNEOI	Paraneoplastic Interpretation, 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
CRMC	CRMP-5-IgG, CSF			Yes	No

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
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

CPT Code Information:

86255 x 9
 84182-AGNBC (if appropriate)
 86256-AGNTC (if appropriate)
 84182-AMIBC (if appropriate)
 84182-AN1BC (if appropriate)
 86256-AN1TC (if appropriate)
 84182-AN2BC (if appropriate)
 86256-AN2TC (if appropriate)
 86256-AN3TC (if appropriate)
 86256-APHTC (if appropriate)
 86256-CRMTC (if appropriate)
 84182-CRMWC (if appropriate)
 84182-PC1BC (if appropriate)
 86256-PC1TC (if appropriate)
 86256-PC2TC (if appropriate)
 84182-PCTBC (if appropriate)
 86256-PCTTC (if appropriate)

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
AGNBC	AGNA-1 Immunoblot, CSF			No	No
AMIBC	Amphiphysin Immunoblot, CSF			No	No
AN1BC	ANNA-1 Immunoblot, CSF			No	No
AN2BC	ANNA-2 Immunoblot, CSF			No	No
CRMWC	CRMP-5-IgG Western Blot, CSF			No	Yes
PC1BC	PCA-1 Immunoblot, CSF			No	No
PCTBC	PCA-Tr Immunoblot, CSF			No	No
AGNTC	AGNA-1 Titer, CSF			No	No

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
AN1TC	ANNA-1 Titer, CSF			No	No
AN2TC	ANNA-2 Titer, CSF			No	No
AN3TC	ANNA-3 Titer, CSF			No	No
APHTC	Amphiphysin Ab Titer, CSF			No	No
CRMTC	CRMP-5-IgG 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

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
AGNBC	607271	AGNA-1 Immunoblot, CSF	Alphanumeric		94383-7
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
CRMWC	21747	CRMP-5-IgG Western Blot, CSF	Alphanumeric		53707-6
PC1BC	607265	PCA-1 Immunoblot, CSF	Alphanumeric		94272-2
PCTBC	607267	PCA-Tr Immunoblot, CSF	Alphanumeric		94386-0
AGNTC	43443	AGNA-1 Titer, CSF	Alphanumeric	titer	94355-5
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
APHTC	618164	Amphiphysin Ab Titer, CSF	Alphanumeric	titer	94354-8
CRMTC	43445	CRMP-5-IgG Titer, CSF	Alphanumeric	titer	94706-9
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

Reference Values:

Test ID	Reporting name	Methodology	Reference value
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
CRMC	CRMP-5-IgG, CSF	IFA	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

Reflex Information:

Test ID	Reporting name	Methodology	Reference value
AGNBC	AGNA-1 Immunoblot, CSF	IB	Negative
AGNTC	AGNA-1 Titer, 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
APHTC	Amphiphysin Ab Titer, CSF	IFA	<1:2
CRMTC	CRMP-5-IgG Titer, CSF	IFA	<1:2
CRMWC	CRMP-5-IgG Western Blot, CSF	WB	Negative
PC1BC	PCA-1 Immunoblot, CSF	IB	Negative
PC1TC	PCA-1 Titer, CSF	IFA	<1:2
PC2TC	PCA-2 Titer, CSF	IFA	<1:2
PCTBC	PCA-Tr Immunoblot, CSF	IB	Negative
PCTTC	PCA-Tr Titer, CSF	IFA	<1:2

*Methodology abbreviations:
Immunofluorescence assay (IFA)

Western blot (WB)
Immunoblot (IB)

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

Note: Titers lower than 1:2 are detectable by recombinant CRMP-5 Western blot analysis. CRMP-5 Western blot analysis will be done on request on stored spinal fluid (held 4 weeks). This supplemental testing is recommended in cases of chorea, vision loss, cranial neuropathy, and myelopathy. Call 800-533-1710 to request CRMP-5 Western blot.