# Test Definition: PAVAL

Paraneoplastic Autoantibody Evaluation, Serum

**Reporting Title:** Paraneoplastic Autoantibody Eval, S
**Performing Location:** Rochester

## Specimen Requirements:

Container/Tube:
Preferred: Red top
Acceptable: Serum gel
Specimen Volume: 4 mL
Additional Information: Include relevant clinical information, name, phone number, mailing address, and e-mail address (if applicable) of ordering physician.
Forms: If not ordering electronically, submit a General Request Form (Supply T239) with the specimen.

| Specimen Type | Temperature | Time |
|---|---|---|
| Serum | Refrigerated (preferred) | 14 days |
| | Ambient | 72 hours |
| | Frozen | |

## Result Codes:

| Result ID | Reporting Name | Type | Unit | LOINC® |
|---|---|---|---|---|
| 83076 | PCA-Tr, S | Alphanumeric | titer | 33926-7 |
| 83137 | ANNA-3, S | Alphanumeric | titer | 33924-2 |
| 81722 | Amphiphysin Ab, S | Alphanumeric | titer | 33927-5 |
| 29347 | Interpretive Comments | Alphanumeric | | In Process |
| 80150 | ANNA-1, S | Alphanumeric | titer | 13997-2 |
| 80776 | ANNA-2, S | Alphanumeric | titer | 43188-2 |
| 89080 | AGNA-1, S | Alphanumeric | titer | 53709-2 |
| 9477 | PCA-1, S | Alphanumeric | titer | 53717-5 |
| 83138 | PCA-2, S | Alphanumeric | titer | 33925-9 |
| 83077 | CRMP-5-IgG, S | Alphanumeric | titer | 35386-2 |
| 8746 | Striational (Striated Muscle) Ab, S<br>**Also used by tests: STR** | Alphanumeric | titer | 8097-8 |
| 81185 | P/Q-Type Calcium Channel Ab | Numeric | nmol/L | 33980-4 |
| 81184 | N-Type Calcium Channel Ab | Numeric | nmol/L | 33979-6 |

| Result ID | Reporting Name | Type | Unit | LOINC® |
|---|---|---|---|---|
| 8338 | ACh Receptor (Muscle) Binding Ab<br>**Also used by tests: ARBI** | Numeric | nmol/L | 11034-6 |
| 84321 | AChR Ganglionic Neuronal Ab, S | Numeric | nmol/L | 42233-7 |
| 89165 | Neuronal (V-G) K+ Channel Ab, S | Numeric | nmol/L | 41871-5 |

## Components:

| Test ID | Reporting Name | CPT Units | CPT Code | Always Performed | Orderable Separately |
|---|---|---|---|---|---|
| PCATR | Purkinje Cell Cytoplasmic Ab Type Tr | 1 | 86256 | Yes | No |
| ANN3S | Anti-Neuronal Nuclear Ab, Type 3 | 1 | 86256 | Yes | No |
| AMPHS | Amphiphysin Ab, S | 1 | 86256 | Yes | No |
| PAINT | Interpretive Comments | | | Yes | No |
| ANN1S | Anti-Neuronal Nuclear Ab, Type 1 | 1 | 86256 | Yes | No |
| ANN2S | Anti-Neuronal Nuclear Ab, Type 2 | 1 | 86256 | Yes | No |
| AGN1S | Anti-Glial Nuclear Ab, Type 1 | 1 | 86256 | Yes | No |
| PCABP | Purkinje Cell Cytoplasmic Ab Type 1 | 1 | 86256 | Yes | No |
| PCAB2 | Purkinje Cell Cytoplasmic Ab Type 2 | 1 | 86256 | Yes | No |
| CRMS | CRMP-5-IgG, S | 1 | 86256 | Yes | No |
| STR | Striational (Striated Muscle) Ab, S | 1 | 83520 | Yes | Yes |
| CCPQ | P/Q-Type Calcium Channel Ab | 1 | 83519 | Yes | No |
| CCN | N-Type Calcium Channel Ab | 1 | 83519 | Yes | No |
| ARBI | ACh Receptor (Muscle) Binding Ab | 1 | 83519 | Yes | Yes |
| GANG | AChR Ganglionic Neuronal Ab, S | 1 | 83519 | Yes | No |
| VGKC | Neuronal (V-G) K+ Channel Ab, S | 1 | 83519 | Yes | No |

## Reflex Tests:

| Test ID | Reporting Name | CPT Units | CPT Code | Always Performed | Orderable Separately |
|---|---|---|---|---|---|
| GD65S | GAD65 Ab Assay, S | 1 | 86341 | No | Yes |

| Test ID | Reporting Name | CPT Units | CPT Code | Always Performed | Orderable Separately |
|---|---|---|---|---|---|
| WBN | Paraneoplastic Autoantibody WBlot,S | 1 | 84182 | No | No |
| CRMWS | CRMP-5-IgG Western Blot, S | 1 | 84182 | No | No |
| ARMO | ACh Receptor (Muscle) Modulating Ab | 1 | 83519 | No | No |
| ABLOT | Amphiphysin Western Blot, S | 1 | 84182 | No | No |
| NMOCS | NMO/AQP4-IgG CBA, S | 1 | 86255 | No | Yes |

## Result Codes for Reflex Tests:

| Test ID | Result ID | Reporting Name | Type | Unit | LOINC® |
|---|---|---|---|---|---|
| GD65S | 81596 | GAD65 Ab Assay, S | Numeric | nmol/L | 30347-9 |
| WBN | 83108 | Paraneoplastic Autoantibody WBlot,S | Alphanumeric | | 34142-0 |
| CRMWS | 83107 | CRMP-5-IgG Western Blot, S | Alphanumeric | | 47401-5 |
| ARMO | 8879 | ACh Receptor (Muscle) Modulating Ab | Numeric | % | 30192-9 |
| ABLOT | 89381 | Amphiphysin Western Blot, S | Alphanumeric | | 33422-7 |
| NMOCS | 61715 | NMO/AQP4-IgG CBA, S | Alphanumeric | | In Process |

## Reference Values:

NEURONAL NUCLEAR ANTIBODIES
Antineuronal Nuclear Antibody-Type 1 (ANNA-1)
<1:240
Antineuronal Nuclear Antibody-Type 2 (ANNA-2)
<1:240
Antineuronal Nuclear Antibody-Type 3 (ANNA-3)
<1:240
Anti-Glial/Neuronal Nuclear Antibody-Type 1 (AGNA-1)
<1:240

NEURONAL AND MUSCLE CYTOPLASMIC ANTIBODIES
Purkinje Cell Cytoplasmic Antibody, Type 1 (PCA-1)
<1:240
Purkinje Cell Cytoplasmic Antibody, Type 2 (PCA-2)
<1:240
Purkinje Cell Cytoplasmic Antibody, Type Tr (PCA-Tr)
<1:240
Amphiphysin Antibody
<1:240
CRMP-5-IgG
<1:240

Note: 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 or 507-266-5700 to request CRMP-5 Western blot.

Striational (Striated Muscle) Antibodies
<1:60

CATION CHANNEL ANTIBODIES
N-Type Calcium Channel Antibody
< or =0.03 nmol/L
P/Q-Type Calcium Channel Antibody
< or =0.02 nmol/L
ACh Receptor (Muscle) Binding Antibody
< or =0.02 nmol/L
AChR Ganglionic Neuronal Antibody
< or =0.02 nmol/L
Neuronal VGKC Autoantibody
< or =0.02 nmol/L

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."

NEUROMYELITIS OPTICA (NMO)/AQUAPORIN-4-IGG CELL-BINDING ASSAY
Negative