Movement Disorder Evaluation Algorithm-Serum

The following tests are always performed

- Radioimmunoprecipitation Assay (RIA)
  - P/Q-Type Calcium Channel Antibody, Serum
  - N-Type Calcium Channel Antibody, Serum
  - Ganglionic Acetylcholine Receptor (Alpha-3) Autoantibody, Serum
  - Neuronal Voltage-Gated Potassium Channel Complex (VGKC) Autoantibody, Serum
  - Glutamic Acid Decarboxylase (GAD65) Antibody Assay, Serum

- Immunofluorescence Assay (tissue IFA)
  - Dipeptidyl-Peptidase-Like Protein-6 (DPPX) Antibody by Immunofluorescence, Serum
  - Metabotropic Glutamate Receptor 1 (mGluR1) Antibody by Immunofluorescence, Serum
  - Collapsin Response-Mediator Protein-5 Neuronal (CRMP-5-IgG), Serum
  - Antineuronal Nuclear Antibody-Type 1 (ANNA-1), Serum
  - Antineuronal Nuclear Antibody-Type 2 (ANNA-2), Serum
  - Antineuronal Nuclear Antibody-Type 3 (ANNA-3), Serum
  - Purkinje Cell Cytoplasmic Antibody, Type 1 (PCA-1), Serum
  - Purkinje Cell Cytoplasmic Antibody, Type 2 (PCA-2), Serum
  - Purkinje Cell Cytoplasmic Antibody, Type Tr (PCA-Tr), Serum
  - Anti-Glial/Neuronal Nuclear Antibody-Type 1 (AGNA-1), Serum
  - Amphiphysin Antibody Assay, Serum

- Immunofluorescence Assay (cell binding; CBA)
  - NMDA-Receiver Antibody by CBA, Serum
  - Contactin-Associated Protein-Like-2 (CASPR2)-IgG, Serum
  - Leucine-Rich Glioma Inactivated Protein-1 (Lgi1) IgG, Serum

- Western Blot
  - Collapsin response-mediator protein-5-IgG (CRMP-5-IgG) Western blot

If IFA pattern for ANNA-1, ANNA-2, ANNA-3, PCA-1, PCA-2, PCA-Tr, CRMP-5 IgG, amphiphysin antibody, or AGNA-1 is indeterminate

Paraneoplastic autoantibody, Western blot confirmation

- Dipeptidyl-peptidase-like protein-6 (DPPX) antibody by cell binding assay
- Dipeptidyl-peptidase-like protein-6 (DPPX) antibody by immunofluorescence titer assay

If IFA pattern suggests DPPX antibody

Amphiphysin antibody Western blot

Neuromyelitis optica (NMO)/aquaporin-4 IgG fluorescence-activated cell sorting (FACS) assay

If IFA pattern suggests amphiphysin antibody

- Metabotropic glutamate receptor 1 (mGluR1) antibody by cell binding assay
- Metabotropic glutamate receptor 1 (mGluR1) antibody by immunofluorescence titer assay

If IFA pattern suggests NMO/Aquaporin-4 IgG

- AMPA-receptor antibody
- NMNDA-receptor antibody
- GABA-B-receptor antibody

If IFA pattern suggests DPPX antibody

If IFA pattern suggests mGluR1 antibody

If pattern suggests AMPA-receptor antibody

If pattern suggests NMNDA-receptor antibody and NMNDA-receptor antibody, CBA are positive

If pattern suggests GABA-B-receptor antibody

If pattern suggests AMPA-receptor antibody IF titer assay and CBA

If pattern suggests NMNDA-receptor antibody IF titer assay

If pattern suggests GABA-B-receptor antibody IF titer assay and CBA