Epilepsy Autoimmune Evaluation Algorithm, Spinal Fluid

**Radioimmunoprecipitation Assay (RIA)**
- Glutamic Acid Decarboxylase (GAD65) Antibody Assay, Spinal Fluid
- Neuronal Voltage-Gated Potassium Channel-Complex (VGKC) Autoantibody, Spinal Fluid

**Immunofluorescence Assay (tissue IFA)**
- Antineuronal Nuclear Antibody-Type 1 (ANNA-1), Spinal Fluid
- Antineuronal Nuclear Antibody-Type 2 (ANNA-2), Spinal Fluid
- Antineuronal Nuclear Antibody-Type 3 (ANNA-3), Spinal Fluid
- Purkinje Cell Cytoplasmic Antibody, Type 2 (PCA-2), Spinal Fluid
- Purkinje Cell Cytoplasmic Antibody, Type Tr (PCA-Tr), Spinal Fluid
- Amphiphysin Antibody Assay, Spinal Fluid
- Collapsin Response-Mediator Protein-5 Neuronal (CRMP-5-IgG), Spinal Fluid
- Anti-Glial / Neuronal Nuclear Antibody-Type 1 (AGNA-1), Spinal Fluid

**Immunofluorescence Assay (cell binding; CBA)**
- NMDA-Receptor Antibody by CBA, Spinal Fluid
- AMPA-Receptor Antibody by CBA, Spinal Fluid
- GABA-B-Receptor Antibody by CBA, Spinal Fluid
- Contactin-Associated Protein-Like-2 (CASPR2)-IgG, Spinal Fluid
- Leucine-Rich Glioma Inactivated Protein-1 IgG, Spinal Fluid

**IFA pattern suggests**
- ANNA-1, ANNA-2, PCA-2, CRMP-5 IgG, or Amphiphysin Antibody or if IFA pattern is indeterminate

**IFA pattern suggests**
- CRMP-5 IgG
- Amphiphysin Antibody
- NMO / Aquaporin-4-IgG
- PCA-1

**If pattern suggests**
- AMPA-Receptor Antibody and AMPA-Receptor Antibody, CBA is positive
- NMDA-Receptor Antibody and NMDA-Receptor Antibody, CBA is positive
- GABA-B-Receptor Antibody and GABA-B-Receptor Antibody, CBA is positive

**Paraneoplastic Autoantibody, Western Blot Confirmation, Spinal Fluid**

**Collapsin Response-Mediator Protein-5 (CRMP-5) Western Blot, Spinal Fluid**

**Amphiphysin Antibody Western Blot, Spinal Fluid**

**Neuromyelitis Optica (NMO)/Aquaporin-4-IgG Fluorescence-Activated Cell Sorting (FACS) Assay, Spinal Fluid**

**Purkinje Cell Cytoplasmic Antibody, Type 1 (PCA-1), Spinal Fluid**

**AMPA-Receptor Antibody IF titer assay**

**NMDA-Receptor Antibody IF titer assay**

**GABA-B-Receptor Antibody IF titer assay**