MAYO CLINIC LABORATORIES

Autoimmune Myelopathy Evaluation Algorithm-Serum

MAS1 / Autoimmune Myelopathy Evaluation, Serum
The following tests are always performed:

Immunoprecipitation Assay

- Glutamic acid decarboxylase (GAD65) antibody assay

Immunofluorescence Assay (IFA)

- Antineuronal nuclear antibody-type1 (ANNA1)
- Antineuronal nuclear antibody-type2 (ANNA2)
- Antineuronal nuclear antibody-type3 (ANNA3)
- Purkinje cell cytoplasmic antibody-type1 (PCA1)
- Purkinje cell cytoplasmic antibody-type2 (PCA2)
- Purkinje cell cytoplasmic antibody-type Tr (PCA-Tr)
- Amphiphysin antibody assay
- Collapsin response-mediator protein-5 neuronal (CRMP-5-IgG)
- Anti-glial/neuronal nuclear antibody-type1 (AGNA1)
- Dipeptidyl-peptidase-like protein-6 (DPPX) antibody
- Glial fibrillary acidic protein (GFAP)
- Metabotropic glutamate receptor 1 (mGluR1) antibody
- Neuronal intermediate filament IgG (NIF)

Western Blot

- Collapsin response-mediator protein-5-IgG (CRMP-5-IgG)

Fluorescence-Activated Cell Sorting (FACS)

- Neuromyelitis optica (NMO)/aquaporin-4-IgG
- Myelin oligodendrocyte glycoprotein (MOG-IgG-1)

If NMO/aquaporin-4-IgG is positive
→ NMO/aquaporin-4-IgG FACS titer assay

If MOG-IgG-1 is positive
→ MGO-IgG-1 FACS titer assay

If IFA pattern suggests ANNA-1
→ ANNA-1 antibody by immunoblot

If IFA pattern suggests ANNA-2
→ ANNA-2 antibody by immunoblot

If IFA pattern suggest PCA-1
→ PCA-1 antibody by immunoblot

If IFA pattern suggests AGNA-1
→ AGNA-1 antibody by immunoblot

If IFA pattern suggests amphiphysin antibody
→ Amphiphysin antibody immunoblot

If IFA pattern suggests DPPX antibody
- DPPX antibody by cell-binding assay (CBA)
- DPPX antibody by immunofluorescence (IF) titer assay

If IFA pattern suggests mGluR1 antibody
- mGluR1 antibody by CBA
- mGluR1 antibody by IF titer assay

If IFA pattern suggests AMPA-receptor antibody
- AMPA-receptor antibody by CBA
- AMPA-receptor antibody by IF titer assay

If IFA pattern suggests PCA-Tr
→ PCA-Tr antibody by immunoblot

If IFA pattern suggests NMDA receptor antibody
- NMDA-receptor antibody by CBA
- NMDA-receptor antibody by IF titer assay

If IFA pattern suggests NIF
- Alpha internexin antibody by CBA
- NIF heavy chain antibody by CBA
- NIF light chain antibody by CBA
- NIF antibody by IF titer assay

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

If IFA pattern suggests GFAP antibody
- GFAP alpha subunit antibody by CBA
- GFAP alpha subunit antibody by IF titer assay

Clickable PDF
Click on blue tests to view test catalog information

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