Patient with suspected paraneoplastic neurological syndrome

Paraneoplastic Antibody Evaluation, Basic, CSF

Reflex Tests

AMPAR1, AMPAR2, GABABR, NMDAR1, CASPR2, or LGI1 suggested by tissue IFA

AMPAR1, AMPAR2, GABABR, NMDAR1, CASPR2, LGI1 (CBA)

Positive (any test)

Titer for positive antibody

NMDAR1 titer ≥1:10

Encephalomyelitis or limbic encephalitis

AMPAR1, AMPAR2, or GABABR titer ≥1:10

Encephalitis with psychiatric manifestations, seizures, dyskinesias, dystonia, and autonomic instability

CASPR2 or LGI1 titer ≥1:10

Limbic encephalitis, neuromyotonia, or Morvan syndrome

ANNA3 positive by tissue IFA

ANNA3 titer ≥1:10

Encephalomyelitis or sensory neuropathy

NMO antibody suggested by tissue IFA pattern

Aquaporin 4 (NMO), CBA

Positive

Aquaporin 4 (NMO), titer ≥1:10

Neuromyelitis optica

PCA2 positive by tissue IFA

PCA2 titer ≥1:10

Encephalomyelitis, cerebellar degeneration

AGNA/SOX1, amphiphysin, ANNA1, ANNA2, CRMP5/CV2, GAD65, PCA1, or PCA-Tr (DNER) positive, indeterminate, or suggested by IFA

Western line blot, quantitative

Positive (signal intensity ≥11)

Refer to Table 3 for interpretation

VGKC, LGI1, CASPR2 antibody positive by tissue IFA

Neuronal (V-G) K+ channel Ab, CSF ≥20 pmol/L

Refer to Table 3 for interpretation

This figure was developed by Quest Diagnostics based on the following references: 4, 9, 10, and 13. This figure is provided for informational purposes only and is not intended as medical advice. A physician’s test selection and interpretation, diagnosis, and patient management decisions should be based on his/her education, clinical expertise, and assessment of the patient.