

HOTLINE: Effective August 17, 2020

**New Test**      **3002917**      **Neuronal Nuclear Antibodies (Hu, Ri, Yo, Tr/DNER) IgG by Immunoblot, Serum**      **NRNL IB S**

**Methodology:** Qualitative Immunoblot  
**Performed:** Mon, Thu, Sat  
**Reported:** 1-4 days

**Specimen Required:** Collect: Serum separator tube  
Specimen Preparation: Separate serum from cells ASAP or within 2 hours of collection. Transfer 1 mL serum to an ARUP Standard Transport Tube. (Min: 0.30 mL)  
Storage/Transport Temperature: Refrigerated  
Unacceptable Conditions: Plasma. Contaminated, heat-inactivated, grossly hemolyzed, or lipemic specimens  
Stability (collection to initiation of testing): After separation from cells: Ambient: 48 hours; Refrigerated: 2 weeks; Frozen: 1 month

**Reference Interval:**

Component	Reference Range
Neuronal Nuclear Ab (Hu) IgG, IB, Serum	Negative
Neuronal Nuclear Ab (Ri) IgG, IB, Serum	Negative
Neuronal Nuclear Ab (Yo) IgG, IB, Serum	Negative
Neuronal Nuclear Ab (Tr/DNER) IgG, IB	Negative

**Interpretive Data:**

This test detects IgG antineuronal antibodies to Hu, Ri, Yo and Tr (DNER) antigens.

Antineuronal antibodies serve as markers that aid in discriminating between a true paraneoplastic neurological disorder (PND) and other inflammatory disorders of the nervous system. Anti-Hu (antineuronal nuclear antibody, type I) is associated with small cell lung cancer. Anti-Ri (antineuronal nuclear antibody, type II) is associated with neuroblastoma in children and with fallopian tube and breast cancer in adults. Anti-Yo (anti-Purkinje cell cytoplasmic antibody) is associated with ovarian and breast cancer. Anti-Tr(DNER) is associated with Hodgkin’s lymphoma.

The presence of one or more of these antineuronal antibodies supports a clinical diagnosis of PND and should lead to a focused search for the underlying neoplasm.

See Compliance Statement D: [www.aruplab.com/CS](http://www.aruplab.com/CS)

**CPT Code(s):** 84182 x4

New York DOH approval pending. Call for status update.

**HOTLINE NOTE:** Refer to the Test Mix Addendum for interface build information.