



Pathology and Laboratory Medicine

PARANEOPLASTIC
ANTIBODY
PANEL,
SERUM/CSF

Orderable - PNAS: for serum/ PNACSF: for CSF

Turnaround Time: 7 days

Alternate Name(s):

Clinical Immunology Lab

Anti-Yo (PCA-1)

Anti-Ri (ANNA-2)

Anti-CV2 (CRMP5)

Anti-Hu (ANNA-1)

Anti-Ma2/Ta

Anti-Amphiphysin

Anti-Recoverin

Anti-SOX1

Anti-Titin

Anti-Zic4

Anti-GAD65

Anti-Tr (DNER)

≡ ×- Requisition:

Laboratory:

CLINICAL IMMUNOLOGY REQUISITION

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Method of Analysis:

Immunoblot.

Positive for anti Hu, Yo, Ri, amphiphysin, CV2, Ma2, SOX-1, Zic4 and Tr (DNER) by immunoblot will be reflexed to tissue indirect immunofluorescence (TIIF) assay (reported based on immunoblot).

Positive for anti-GAD65 by immunoblot will be reflexed to GAD65 ELISA.

Anti-titin and antirecoverin antibodies will be determined by immunoblot only.

Specimen:

Adult	Pediatric		
5 mL Gold top	0-2 years: 0.5 mL Red		
Vacutainer tube or 6 mL	Microtainer		
Red top Vacutainer tube	2-10 years: 2 mL Red top tube		
EDTA, heparin or citrate plasma are also acceptable			
CSF samples will also be accepted. Suggest CSF be submitted			
with serum for testing.			

Collection Information:

Volume required for testing is 1.0 mL Minimum volume is 0.5 mL

Reference Ranges:

Negative



Test Schedule:Batched analysis





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Interpretive Comments:

Paraneoplastic syndromes are a group of rare disorders; some of which are caused by autoimmune reactions against antigens co-expressed by cancer cells and neurons. Below are the most frequent cancers associated with paraneoplastic syndromes and autoantibodies.

Authorica Associated Francountly			
Antibodies	Associated	Frequently	
against	Neurological	Associated	
	Disorders	Tumors	
Hu (ANNA-1)	Paraneoplastic encephalomyeli tis	Small cell lung cancer, neuroblastoma	
	แร	Heurobiastoma	
Yo (PCA-1)	Paraneoplastic cerebellar degeneration	Ovarian cancer, breast cancer, uterine carcinoma	
Ri (ANNA-2)	Paraneoplastic opsoclonus myoclonus ataxia	Neuroblastoma, Breast cancer	
Ma2/Ta	Rhombencepha litis, paraneoplastic limbic encephalitis, brain stem encephalopathy	Germinal carcinoma of the testis (seminoma)	
Amphiphysin	Stiff-person syndrome, Myasthenic syndrome	Breast cancer, small cell lung cancer	
CV2 (CRMP5)	Limbic encephalitis	Small cell lung cancer, thymoma	
Recoverin	Retinopathy	Small cell lung cancer	
SOX1	Lambert-Eaton myasthenic syndrome	Small cell lung cancer	
Titin	Myasthenia gravis	Thymoma	
Anti-Zic4	Paraneoplastic cerebellar degeneration	Small cell lung cancer	
Tr (DNER)	Paraneoplastic cerebellar	Hodgkin's lymphoma	







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	degeneration	
GAD65	Stiff-person	Small cell lung
	syndrome	cancer

Comments:

This test is available only to external clients.

Critical Information Required:

Each sample must be submitted with a clinical questionnaire completed by the treating physician, which should take no more than 10-15 minutes to complete.

Clinical Questionnaire

Dr. Adrian Budhram will review the provided clinical information for every positive neural antibody result, and contact the ordering physician to promptly review the result and aid in clinical-serological correlation.

Sample Stability:

Refrigerated: 14 days Frozen: 30 days