

COMPREHENSIVE  
AUTOIMMUNE  
ENCEPHALITIS  
PANEL,  
SERUM/CSF

## Orderable - AEPS for Serum

## AEPCSF for CSF

Turnaround Time: 7 days

### Alternate Name(s):

Panel includes:

#### Autoimmune Encephalitis Antibodies

Anti-NMDAR  
Anti-LGI1  
Anti-CASPR2  
Anti-AMPA1/R2  
Anti-GABAR1/B2  
Anti-DPPX

#### Paraneoplastic Antibodies

Anti-Hu (ANNA-1)  
Anti-Ri (ANNA-2)  
Anti-Yo (PCA-1)  
Anti-Amphiphysin  
Anti-CV2 (CRMP5)  
Anti-Ma2/Ta (PNMA2)  
Anti-Tr (DNER)  
Anti-Zic4  
Anti-Recoverin  
Anti-Titin  
Anti-SOX1

#### Other Antibody

Anti-GAD65  
  
Anti-GFAP  
Anti-mGluR1  
Anti-mGluR5  
Anti-NIF  
Anti-Neurochondrin  
ANNA-3  
PCA-2/Anti-MAP1B  
Anti-AP3B2  
Anti-PDE10A  
Anti-KLHL11  
Anti-ITPR1  
Anti-GRAF



**Laboratory:**  
Clinical Immunology  
Lab



**Requisition:**  
[CLINICAL  
IMMUNOLOGY  
REQUISITION](#)



**Method of Analysis:**  
Cell-based assay  
(CBA) and tissue  
indirect  
immunofluorescence  
(TIF) assay for  
autoimmune  
encephalitis  
antibodies (reported  
based on CBA).

Immunoblot and  
tissue indirect  
immunofluorescence  
(TIF) assay for  
paraneoplastic  
antibodies (reported  
based on  
immunoblot).

ELISA and  
immunoblot for Anti-  
GAD65.

Each sample will also  
be screened for the

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**Specimen:**

Adult	Pediatric
5 mL Gold or 6 mL Red top Vacutainer tube	0-2 years: 0.5 mL Red Microtainer 2-10 years: 2 mL Red top Vacutainer tube
<b>CSF sample:</b> Suggest CSF be submitted with serum for testing.	

following neural antibodies based on research use-only TIIIF, only negative reported on a research basis.

Anti-GFAP  
Anti-mGluR1  
Anti-mGluR5  
Anti-NIF  
Anti-Neurochondrin  
ANNA-3  
PCA-2/Anti-MAP1B  
Anti-AP3B2  
Anti-PDE10A  
Anti-KLHL11  
Anti-ITPR1  
Anti-GRAF



**Test Schedule:**  
Batch analysis

**Collection Information:**

Volume required for testing is 2.0 mL  
Minimum volume is 1.0 mL

**Reference Ranges:**

Negative

**Interpretive Comments:**

Antibodies against	Associated Neurological Disorders	Frequently Associated Tumors
NMDAR	Anti-NMDAR encephalitis	Ovarian teratoma, testicular teratoma
LGI1	Limbic encephalitis	Thyroid carcinoma, small cell lung cancer, kidney cell carcinoma, ovarian teratoma, thymoma
CASPR2	Neuromyotonia, Morvan's syndrome, Limbic encephalitis	Thymoma
AMPA1/R2	Limbic encephalitis	Bronchial carcinoma, breast carcinoma, thymoma
GABAB1/B2	Limbic encephalitis	Small cell lung cancer
DPPX	Anti-DPPX associated autoimmune encephalitis	
Hu (ANNA-1)	Paraneoplastic encephalomyelitis	Small cell lung cancer, neuroblastoma
Yo (PCA-1)	Paraneoplastic cerebellar degeneration	Ovarian cancer, breast cancer, uterine carcinoma
Ri (ANNA-2)	Paraneoplastic opsoclonus myoclonus ataxia	Neuroblastoma, Breast cancer

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Ma2/Ta	Rhombencephalitis, 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 degeneration	Hodgkin's lymphoma
GAD65	Stiff-person syndrome	Small cell lung cancer

### Comments:

This test is available to neurologists at LHSC/SJHC and accepted from referred in locations.

A single autoantibody test is not diagnostic and should not be used to determine course of treatment.

The test result must be evaluated with consideration of clinical presentation, patient history and other laboratory tests.

### Clinical Questionnaire:

A [Clinical Questionnaire](#) is requested with each sample so that Dr. Adrian Budhram can promptly contact the ordering physician with positive antibody results, and aid in clinical-serological correlation. Please note, however, that this clinical questionnaire is not required for testing to be performed.

### Storage and Shipment:

Sample can be stored for up to 14 days at 4°C. For longer storage, store at -20°C. Send samples together with a completely filled out questionnaire.