

AUTOIMMUNE
ENCEPHALITIS
PANEL,
SERUM/CSF

Orderable - AEPS for serum AEPCSF for CSF

Turnaround Time: 5 days

Alternate Name(s):

Panel includes:

Autoimmune Encephalitis Antibodies

Anti-NMDAR

Anti-LGI1

Anti-CASPR2

Anti-AMPAR1/R2

Anti-GABARB1/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

Specimen:

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

Collection Information:

Volume required for testing is 2.0 mL

Minimum volume is 1.0 mL



Laboratory:

Clinical Immunology Lab



Requisition:

[CLINICAL IMMUNOLOGY REQUISITION](#)



Method of Analysis:

Cell-based assay (CBA) and tissue indirect immunofluorescence (TIIF) assay for autoimmune encephalitis antibodies (reported based on CBA).

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

ELISA and immunoblot for Anti-GAD65.

Each sample will also be screened for the following neural antibodies based on research use-only TIIF, only negative reported on

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a research basis.
Anti-GFAP
Anti-mGluR1
Anti-NIF
Anti-Neurochondrin
ANNA-3
PCA-2/Anti-MAP1B
Anti-AP3B2
Anti-PDE10A
Anti-KLHL11
Anti-ITPR1
Anti-GRAF



Test Schedule:
Batch analysis

Reference Ranges:

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
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



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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.

Storage and Shipment:

Sample can be stored for up to 14 days at 4°C. For longer storage, store at -20°C.