

Client: Example Client ABC123
123 Test Drive
Solt Leke City, LIT 8 4108

Salt Lake City, UT 84108 UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB Unknown
Gender: Unknown

Patient Identifiers: 01234567890ABCD, 012345

Visit Number (FIN): 01234567890ABCD **Collection Date:** 00/00/0000 00:00

Neuronal Nuclear Antibody (ANNA) IFA Titer, IgG, CSF (Do NOT give this test code to clients - Panel Component ONLY. Refer to 2010841.)

ARUP test code 2010843

Neuronal Nuclear Ab Titer, IgG CSF

1:40

(Ref Interval: < 1:1)

INTERPRETIVE INFORMATION: Neuronal Nuclear Ab Titer, IgG CSF

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Autoimmune Pediatric CNS Disorders, CSF

ARUP test code 3006211

N-methyl-D-Aspartate Receptor Ab, CSF

1:80

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(Ref Interval: < 1:1)

Antibodies to NMDA were detected; titer was performed at an additional charge.

Clinical trials for anti-NMDA receptor encephalitis are currently underway (clinicaltrials.gov).

INTERPRETIVE INFORMATION: N-methyl-D-Aspartate

Receptor Ab, CSF
Anti-NMDA receptor IgG antibody is found in a subset of patients with autoimmune limbic encephalitis and may occur with or without associated tumor. Decreasing antibody levels may be associated with therapeutic response; therefore, clinical correlation must be strongly considered. A negative test result does not rule out a diagnosis of autoimmune limbic encephalitis.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Paraneoplastic Abs (PCCA/ANNA) IgG, CSF

ANNA Detected

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(Ref Interval: None Detected)

Antibodies detected, therefore IFA titer and Immunoblot testing to be performed.

H=High, L=Low, *=Abnormal, C=Critical

Patient: Patient, Example
ARUP Accession: 23-135-109185
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INTERPRETIVE INFORMATION: Paraneoplastic Abs (PCCA/ANNA) IgG, CSF

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Neuromyelitis Optica/AQP4-IgG, CSF

Detected * (Ref Interval: < 1:1)

Aquaporin-4 Receptor Antibody, IgG is detected. Titer results to follow.

INTERPRETIVE INFORMATION: Neuromyelitis Optica/AQP4-IgG, CSF

Diagnosis of neuromyelitis optica (NMO) requires the presence of longitudinally extensive acute myelitis (lesions extending over 3 or more vertebral segments) and optic neuritis. Approximately 75 percent of patients with NMO express antibodies to the aquaporin-4 (AQP4) receptor. While the absence of AQP4 receptor antibodies does not rule out a diagnosis of NMO, presence of this antibody is diagnostic for NMO.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

GABA-B Receptor Ab IgG Screen, CSF

Detected * (Ref Interval: < 1:1)

GABA-BR Antibody, IgG is detected. Titer results to follow.

INTERPRETIVE INFORMATION: GABA-B Receptor Ab IgG Screen, CSF

Gamma-amino butyric acid receptor, type B (GABA-BR) antibody is found in a subset of patients with autoimmune limbic encephalitis and may occur with or without associated tumor. Decreasing antibody levels may be associated with therapeutic response; therefore, clinical correlation must be strongly considered. A negative test result does not rule out a diagnosis of autoimmune encephalitis.

This indirect fluorescent antibody assay utilizes GABA-BR transfected cell lines for the detection and semi-quantification of GABA-BR IgG antibody.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

CASPR2 Ab IgG Screen by IFA, CSF

Detected * (Ref Interval: < 1:1)

CASPR2 Antibody, IgG is detected. Titer results to follow.

H=High, L=Low, *=Abnormal, C=Critical



INTERPRETIVE INFORMATION: CASPR2 Ab IgG Screen by IFA, CSF

Contactin-associated protein-2 (CASPR2) IgG antibody may occur as part of the voltage-gated potassium channel (VGKC) complex antibodies.

The presence of CASPR2 IgG antibody is associated with a wide spectrum of clinical manifestations, including acquired neuromyotonia, limbic encephalitis, painful neuropathy, and Morvan syndrome. Tumors such as thymoma, small cell lung cancer, and other rarer tumors may occur. The full-spectrum of clinical disorders and tumors associated with the CASPR2 IgG antibody continues to be defined. Results should be interpreted in correlation with the patient's clinical history and other laboratory findings.

This indirect fluorescent antibody assay utilizes contactin-associated protein-2 (CASPR2) transfected cell lines for the detection and semi-quantification of the CASPR2 IgG antibody.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

LGI1 Ab IgG Screen by IFA, CSF

Detected * (Ref Interval: < 1:1)

LGI1 Antibody, IgG is detected. Titer results to follow.

INTERPRETIVE INFORMATION: LGI1 Ab IgG Screen by IFA, CSF

Leucine-rich, glioma-inactivated 1 protein (LGI1) IgG antibody may occur as part of the voltage-gated potassium channel (VGKC) complex antibodies.

The presence of LGI1 IgG antibody is mainly associated with limbic encephalitis, hyponatremia, and myoclonic movements. LGI1 IgG antibody is rarely associated with tumors but may occur infrequently in Morvan syndrome, neuromyotonia, and idiopathic epilepsy. The full-spectrum of clinical disorders associated with the LGI1 IgG antibody continues to be defined. Results should be interpreted in correlation with the patient's clinical history and other laboratory findings.

This indirect fluorescent antibody assay utilizes leucine-rich, glioma-inactivated 1 protein (LGI1) transfected cell lines for the detection and semi-quantification of the LGI1 IgG antibody.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

DPPX Ab IgG CBA IFA Screen, CSF

Detected * (Ref Interval: < 1:1)

DPPX Antibody, IgG is detected. Titer results to follow.

H=High, L=Low, *=Abnormal, C=Critical



INTERPRETIVE INFORMATION: DPPX Ab IgG CBA IFA Screen, CSF

Anti-DPPX IgG antibody is found in a subset of patients with autoimmune encephalitis and may occur with or without associated tumor. Decreasing antibody levels may be associated with therapeutic response; therefore, clinical correlation must be strongly considered. A negative test result does not rule out a diagnosis of autoimmune limbic encephalitis.

This indirect fluorescent antibody cell-based assay (CBA) utilizes dipeptidyl aminopeptidase-like protein 6 (DPPX) transfected cells for the detection of the DPPX IgG antibody.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

GABA-AR Ab IgG CBA-IFA Screen, CSF

Detected * (Ref Interval: < 1:1)

GABA-AR Antibody, IgG is detected. Titer results to follow.

INTERPRETIVE INFORMATION: GABA-AR Ab IgG CBA-IFA Screen, CSF

Gamma-aminobutyric acid receptor, type A (GABA-AR) antibody is found in a subset of patients with autoimmune encephalitis or autoimmune epilepsy, and may occur with or without associated tumor. A negative test result does not rule out a diagnosis of autoimmune limbic encephalitis or autoimmune epilepsy. Interpretation of any anti-neural antibody test requires clinical correlation.

This indirect fluorescent antibody assay utilizes GABA-AR transfected cell lines for detection and semi-quantification of GABA-AR IgG antibody.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.

mGluR1 Ab IgG CBA-IFA Screen, CSF

Detected * (Ref Interval: < 1:1)

mGluR1 Antibody, IgG is detected. Titer results to follow.

INTERPRETIVE INFORMATION: mGluR1 Ab IgG CBA-IFA Screen, CSF

Metabotropic glutamate receptor 1 (mGluR1) antibody is found in a subset of patients with autoimmune cerebellar ataxia or autoimmune encephalitis and may occur with or without associated tumor. A negative test result does not rule out a diagnosis of autoimmune cerebellar ataxia or limbic encephalitis. Interpretation of any anti-neural antibody test requires clinical correlation.

This indirect fluorescent antibody assay utilizes mGluR1 transfected cell lines for detection and semi-quantification of mGluR1 IgG antibody.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.

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Glutamic Acid Decarboxylase Antibody CSF

15.0 IU/mL Н (Ref Interval: 0.0-5.0)

INTERPRETIVE INFORMATION: Glutamic Acid Decarboxylase Antibody, CSF

A value greater than 5.0 IU/mL is considered positive for

glutamic acid decarboxylase antibody (GAD AB CSF).

This assay is intended for the semi-quantitative determination of the GAD Ab in human CSF. Results should be interpreted within the context of clinical symptoms.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Aquaporin-4 Receptor Antibody, IgG by IFA, CSF Titer (Reflex for 2011699 AQP4 CSF - Not Orderable by Clients)

ARUP test code 2011701

Neuromyelitis Optica/AQP4-IgG Titer, CSF

1:80

(Ref Interval: < 1:1)

INTERPRETIVE INFORMATION: Neuromyelitis Optica/AQP4-IgG

Titer, CSF

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Gamma Aminobutyric Acid Receptor, Type B (GABA-BR) Antibody Titer, IgG, CSF (Reflex of 3001267 GABA CSF - Not orderable by clients)

ARUP test code 3001273

GABA-B Receptor Ab IgG Titer, CSF

1:80

(Ref Interval: < 1:1)

INTERPRETIVE INFORMATION: GABA-B Receptor Ab IgG Titer, CSF

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Contactin-Associated Protein-2 Antibody Titer, IgG by IFA, CSF (Reflex of CASPR2GCSF Only-**Not Orderable by Clients)**

ARUP test code 3001989

CASPR2 Ab IgG Titer by IFA, CSF

1:40

(Ref Interval: < 1:1)

INTERPRETIVE INFORMATION: CASPR2 Ab Titer IgG by IFA, CSF

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

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Patient: Patient, Example ARUP Accession: 23-135-109185 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 5 of 8 | Printed: 5/16/2023 2:15:26 PM



Leucine-Rich, Glioma-Inactivated Protein 1 Antibody Titer, IgG by IFA, CSF (Reflex for LGI1 IGG CSF Only - Not Orderable by Clients)

ARUP test code 3001994

LGI1 Ab IgG Titer by IFA, CSF

1:80

(Ref Interval: < 1:1)

INTERPRETIVE INFORMATION: LGI1 Ab Titer IgG by IFA, CSF

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Dipeptidyl Aminopeptidase-Like Protein 6 (DPPX) Antibody Titer, IgG, CSF (Reflex of 3004512 DPPX CSF - Not orderable by clients)

ARUP test code 3004515

DPPX Ab IgG CBA IFA Titer, CSF

1:80

(Def Interval

(Ref Interval: < 1:1)

INTERPRETIVE INFORMATION: DPPX IgG Ab Titer, CSF

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Gamma-Aminobutyric Acid Receptor, Type A (GABA-AR) Antibody Titer, IgG by CBA-IFA, CSF (Reflex of GABA-A CSF - Not Orderable by Clients)

ARUP test code 3006006

GABA-AR Ab IgG CBA-IFA Titer, CSF

1:20

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(Ref Interval: < 1:1)

INTERPRETIVE INFORMATION: GABA-AR Ab IgG CBA-IFA Titer, CSF

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.

Metabotropic Glutamate Receptor 1 (mGluR1) Antibody Titer, IgG by CBA-IFA, CSF (Reflex of MGLUR1 CSF - Not Orderable by Clients)

ARUP test code 3006042

mGluR1 Ab IgG CBA-IFA Titer, CSF

1:80

*

(Ref Interval: < 1:1)

INTERPRETIVE INFORMATION: mGlur1 Ab IgG CBA-IFA Titer, CSF

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.

H=High, L=Low, *=Abnormal, C=Critical

Patient: Patient, Example
ARUP Accession: 23-135-109185
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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Neuronal Nuclear Ab (TR/DNER) IgG, CSF

ARUP test code 3006377

Neuronal Ab (TR/DNER) IgG, CSF

Positive * (Ref Interval: Negative)

INTERPRETIVE INFORMATION: Neuronal Ab (TR/DNER) IGG, CSF

This test detects IgG antineuronal antibodies to 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-Tr(DNER) is associated with Hodgkin's lymphoma.

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

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Neuronal Nuclear Ab, Immunoblot, Hu CSF

ARUP test code 3006376

Neuronal Nuclear Ab (Hu) IgG, IB, CSF

Positive * (Ref Interval: Negative)

INTERPRETIVE INFORMATION: Neuronal Nuclear Ab IgG, Immunoblot, Hu CSF
This test detects IgG antineuronal antibodies to Hu 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.

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

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.

H=High, L=Low, *=Abnormal, C=Critical



VERIFIED/REPORTED DATES				
Procedure	Accession	Collected	Received	Verified/Reported
N-methyl-D-Aspartate Receptor Ab, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Neuronal Nuclear Ab Titer, IgG CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Paraneoplastic Abs (PCCA/ANNA) IgG, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Neuromyelitis Optica/AQP4-IgG Titer, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Neuromyelitis Optica/AQP4-IgG, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
GABA-B Receptor Ab IgG Screen, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
GABA-B Receptor Ab IgG Titer, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
CASPR2 Ab IgG Screen by IFA, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
CASPR2 Ab IgG Titer by IFA, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
LGI1 Ab IgG Screen by IFA, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
LGI1 Ab IgG Titer by IFA, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
DPPX Ab IgG CBA IFA Screen, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
DPPX Ab IgG CBA IFA Titer, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
GABA-AR Ab IgG CBA-IFA Screen, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
GABA-AR Ab IgG CBA-IFA Titer, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
mGluR1 Ab IgG CBA-IFA Screen, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
nGluR1 Ab IgG CBA-IFA Titer, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Neuronal Ab (TR/DNER) IgG, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Neuronal Nuclear Ab (Hu) IgG, IB, CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Glutamic Acid Decarboxylase Antibody CSF	23-135-109185	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical