

Specimen Collected: 2/6/2025 09:36 MST

**Autoimmune Pediatric CNS Disorders, CSF** | Received: 2/6/2025 09:36 MST Report/Verified: 2/6/2025 10:04 MST

Procedure	Result	Units	Reference Interval
NMDA Receptor Ab IgG CBA-IFA, CSF	<b>1:160 * f1 i1</b>		[< 1:1]
Paraneoplastic Abs (PCCA/ANNA) IgG, CSF	<b>PCCA Detected * f2 i2</b>		[None Detected]
NMO/AQP4 Ab IgG CBA-IFA Screen, CSF	<b>Detected * t1 i3</b>		[< 1:1]
AMPA Receptor Ab IgG CBA-IFA Screen, CSF	<b>Detected * t2 i4</b>		[< 1:1]
GABA-BR Ab IgG CBA-IFA Screen, CSF	<b>Detected * t3 i5</b>		[< 1:1]
CASPR2 Ab IgG CBA-IFA Screen, CSF	<b>Detected * t4 i6</b>		[< 1:1]
LGI1 Ab IgG CBA-IFA Screen, CSF	<b>Detected * t5 i7</b>		[< 1:1]
DPPX Ab IgG CBA-IFA Screen, CSF	<b>Detected * t6 i8</b>		[< 1:1]
GABA-AR Ab IgG CBA-IFA Screen, CSF	<b>Detected * t7 i9</b>		[< 1:1]
mGluR1 Ab IgG CBA-IFA Screen, CSF	<b>Detected * t8 i10</b>		[< 1:1]
Glutamic Acid Decarboxylase Antibody CSF	<b>10.0 # i11</b>	IU/mL	[0.0-5.0]

**Neuronal Ab (TR/DNER) IgG, CSF** | Received: 2/6/2025 09:36 MST Report/Verified: 2/6/2025 10:04 MST

Procedure	Result	Units	Reference Interval
Neuronal Ab (TR/DNER) IgG, CSF	<b>High Positive * i12</b>		[Negative]

**Neuronal Nuclear Ab, Immunoblot, Hu CSF** | Received: 2/6/2025 09:36 MST Report/Verified: 2/6/2025 10:04 MST

Procedure	Result	Units	Reference Interval
Neuronal Nuclear Ab (Hu) IgG, IB, CSF	<b>Positive * i13</b>		[Negative]

**Purkinje Cell Antibody Titer, CSF** | Received: 2/6/2025 09:36 MST Report/Verified: 2/6/2025 10:04 MST

Procedure	Result	Units	Reference Interval
Purkinje Cell Antibody Titer IgG, CSF	<b>1:20 * i14</b>		[< 1:1]

**AMPA Rptr Ab IgG Titer by CBA-IFA, CSF** | Received: 2/6/2025 09:36 MST Report/Verified: 2/6/2025 10:05 MST

Procedure	Result	Units	Reference Interval
AMPA Receptor Ab IgG CBA-IFA Titer, CSF	<b>1:5 * i15</b>		[< 1:1]

**CASPR2 Ab IgG Titer by CBA-IFA, CSF** | Received: 2/6/2025 09:36 MST Report/Verified: 2/6/2025 10:05 MST

Procedure	Result	Units	Reference Interval
CASPR2 Ab IgG CBA-IFA Titer, CSF	<b>1:160 * i16</b>		[< 1:1]

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**Unless otherwise indicated, testing performed at:**

**ARUP Laboratories**

500 Chipeta Way, Salt Lake City, UT 84108

Laboratory Director: Jonathan R. Genzen, MD, PhD

**ARUP Accession:** 25-037-900092

**Report Request ID:** 20291695

**Printed:** 2/10/2025 09:19 MST

NMO/AQP4-Ab IgG Titer by CBA-IFA, CSF		Received: 2/6/2025 09:36 MST	Report/Verified: 2/6/2025 10:05 MST
<b>Procedure</b>	<b>Result</b>	<b>Units</b>	<b>Reference Interval</b>
NMO/AQP4 Ab IgG CBA-IFA Titer, CSF	1:20 * i17		< 1:1
DPPX Ab IgG Titer by CBA-IFA, CSF		Received: 2/6/2025 09:36 MST	Report/Verified: 2/6/2025 10:05 MST
<b>Procedure</b>	<b>Result</b>	<b>Units</b>	<b>Reference Interval</b>
DPPX Ab IgG CBA-IFA Titer,CSF	1:80 * i18		< 1:1
GABA-A Receptor IgG CBA-IFA Titer, CSF		Received: 2/6/2025 09:36 MST	Report/Verified: 2/6/2025 10:05 MST
<b>Procedure</b>	<b>Result</b>	<b>Units</b>	<b>Reference Interval</b>
GABA-AR Ab IgG CBA-IFA Titer,CSF	1:80 * i19		< 1:1
GABA-B Rptr Ab IgG Titer by CBA-IFA, CSF		Received: 2/6/2025 09:36 MST	Report/Verified: 2/6/2025 10:05 MST
<b>Procedure</b>	<b>Result</b>	<b>Units</b>	<b>Reference Interval</b>
GABA-BR Ab IgG CBA-IFA Titer,CSF	1:640 * i20		< 1:1
LGI1 Ab IgG Titer by CBA-IFA, CSF		Received: 2/6/2025 09:36 MST	Report/Verified: 2/6/2025 10:05 MST
<b>Procedure</b>	<b>Result</b>	<b>Units</b>	<b>Reference Interval</b>
LGI1 Ab IgG CBA-IFA Titer,CSF	1:320 * i21		< 1:1
mGluR1 Ab IgG CBA-IFA Titer, CSF		Received: 2/6/2025 09:36 MST	Report/Verified: 2/6/2025 10:05 MST
<b>Procedure</b>	<b>Result</b>	<b>Units</b>	<b>Reference Interval</b>
mGluR1 Ab IgG CBA-IFA Titer,CSF	1:20 * i22		< 1:1

**Interpretive Text**

- t1: 2/6/2025 09:36 MST (NMO/AQP4 Ab IgG CBA-IFA Screen, CSF)  
Aquaporin-4 Receptor Antibody, IgG is detected. Titer results to follow.
- t2: 2/6/2025 09:36 MST (AMPA Receptor Ab IgG CBA-IFA Screen, CSF)  
AMPA Antibody, IgG is detected. Titer results to follow.
- t3: 2/6/2025 09:36 MST (GABA-BR Ab IgG CBA-IFA Screen, CSF)  
GABA-BR Antibody, IgG is detected. Titer results to follow.
- t4: 2/6/2025 09:36 MST (CASPR2 Ab IgG CBA-IFA Screen, CSF)  
CASPR2 Antibody, IgG is detected. Titer results to follow.
- t5: 2/6/2025 09:36 MST (LGI1 Ab IgG CBA-IFA Screen, CSF)  
LGI1 Antibody, IgG is detected. Titer results to follow.
- t6: 2/6/2025 09:36 MST (DPPX Ab IgG CBA-IFA Screen, CSF)  
DPPX Antibody, IgG is detected. Titer results to follow.
- t7: 2/6/2025 09:36 MST (GABA-AR Ab IgG CBA-IFA Screen, CSF)  
GABA-AR Antibody, IgG is detected. Titer results to follow.
- t8: 2/6/2025 09:36 MST (mGluR1 Ab IgG CBA-IFA Screen, CSF)  
mGluR1 Antibody, IgG is detected. Titer results to follow.

**Result Footnote**

- f1: NMDA Receptor Ab IgG CBA-IFA, CSF  
Antibodies to NMDA were detected; titer was performed at an additional charge.

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**Result Footnote**

- f1: NMDA Receptor Ab IgG CBA-IFA, CSF  
The ExTINGUISH Trial (safety and efficacy of Inebilizumab in anti-NMDA receptor encephalitis, NCT04372615) is actively recruiting patients. To learn more, or to refer your patient, call 1-844-427-2465, email ExTINGUISH@hsc.utah.edu, or visit <https://neuronext.org/projects/nn111-extinguish>.
- f2: Paraneoplastic Abs (PCCA/ANNA) IgG, CSF

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

**Test Information**

- i1: NMDA Receptor Ab IgG CBA-IFA, CSF  
INTERPRETIVE INFORMATION: NMDA Receptor Ab IgG CBA-IFA, CSF

NMDA receptor 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. In addition, positive results have been reported in patients with non-autoimmune phenotypes. A negative test result does not rule out a diagnosis of autoimmune limbic encephalitis. Results should be interpreted in correlation with the patient's clinical history and other laboratory findings.

This indirect fluorescent antibody assay utilizes full-length GluN1 transfected cell lines for the detection and semiquantification of NMDA receptor 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.

- i2: Paraneoplastic Abs (PCCA/ANNA) IgG, CSF  
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.

- i3: NMO/AQP4 Ab IgG CBA-IFA Screen, CSF  
INTERPRETIVE INFORMATION: NMO/AQP4 Ab IgG CBA-IFA Screen,  
CSF

Neuromyelitis optic (NMO) commonly presents with optic neuritis or longitudinally extensive transverse myelitis. Approximately 75 percent of patients with NMO have 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 indirect fluorescent antibody assay utilizes AQP4 receptor transfected cell lines for the detection and semiquantification of AQP4 IgG antibody.

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Page 3 of 9

**Test Information**

i3: NMO/AQP4 Ab IgG CBA-IFA Screen, CSF

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i4: AMPA Receptor Ab IgG CBA-IFA Screen, CSF

INTERPRETIVE INFORMATION: AMPA Receptor Ab IgG CBA-IFA Screen, CSF

Alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptor (AMPA) 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. A negative test result does not rule out a diagnosis of autoimmune encephalitis. Results should be interpreted in correlation with the patient's clinical history and other laboratory findings.

This indirect fluorescent antibody assay utilizes AMPAR transfected cell lines for detection and semiquantification of AMPAR 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.

i5: GABA-BR Ab IgG CBA-IFA Screen, CSF

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

Gamma-amino butyric acid receptor, type B (GABA-BR) antibody is found in a subset of patients with autoimmune epilepsy and other autoimmune neurologic phenotypes; it may occur with or without associated tumor. Decreasing antibody levels may be associated with therapeutic response. A negative test result does not rule out a diagnosis of autoimmune neurologic disease. Results should be interpreted in correlation with the patient's clinical history and other laboratory findings.

This indirect fluorescent antibody assay utilizes GABA-BR transfected cell lines for the detection and semiquantification 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.

i6: CASPR2 Ab IgG CBA-IFA Screen, CSF

INTERPRETIVE INFORMATION: CASPR2 Ab IgG CBA-IFA Screen, CSF

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

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Page 4 of 9

**Test Information**

i6: CASPR2 Ab IgG CBA-IFA Screen, CSF

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 CASPR2 transfected cell lines for the detection and semiquantification 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.

i7: LGI1 Ab IgG CBA-IFA Screen, CSF

INTERPRETIVE INFORMATION: LGI1 Ab IgG CBA-IFA Screen, 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 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.

i8: DPPX Ab IgG CBA-IFA Screen, CSF

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

DPPX antibody is found in a subset of patients with autoimmune encephalitis, and is often associated with prodromal gastrointestinal symptoms and unintentional weight loss. It may occur with or without associated tumor. Decreasing antibody levels may be associated with therapeutic response. A negative test result does not rule out a diagnosis of autoimmune neurologic disease. Results should be interpreted in correlation with the patient's clinical history and other laboratory findings.

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**Test Information**

i8: DPPX Ab IgG CBA-IFA Screen, CSF

This indirect fluorescent antibody assay utilizes DPPX transfected cells for the detection and semiquantification 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 U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.

i9: GABA-AR Ab IgG CBA-IFA Screen, CSF

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.

i10: mGluR1 Ab IgG CBA-IFA Screen, CSF

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.

i11: Glutamic Acid Decarboxylase Antibody CSF

INTERPRETIVE INFORMATION: Glutamic Acid Decarboxylase Antibody, CSF

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**Test Information**

i11: 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.

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i12: Neuronal Ab (TR/DNER) IgG, CSF  
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.

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i13: Neuronal Nuclear Ab (Hu) IgG, IB, CSF  
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.

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Page 7 of 9

**Test Information**

i14: Purkinje Cell Antibody Titer IgG, CSF  
INTERPRETIVE INFORMATION: Purkinje Cell Antibody Titer IgG, CSF

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i15: AMPA Receptor Ab IgG CBA-IFA Titer, CSF  
INTERPRETIVE INFORMATION: AMPA Receptor 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 US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

i16: CASPR2 Ab IgG CBA-IFA Titer, CSF  
INTERPRETIVE INFORMATION: CASPR2 Ab IgG CBA-IFA Titer, CSF

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i17: NMO/AQP4 Ab IgG CBA-IFA Titer, CSF  
INTERPRETIVE INFORMATION: NMO/AQP4 Ab IgG CBA-IFA Titer, CSF

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i18: DPPX Ab IgG CBA-IFA Titer, CSF  
INTERPRETIVE INFORMATION: DPPX Ab IgG CBA-IFA Titer, CSF

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i19: GABA-AR Ab IgG CBA-IFA Titer, CSF  
INTERPRETIVE INFORMATION: GABA-AR Ab IgG CBA-IFA Titer, CSF

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i20: GABA-BR Ab IgG CBA-IFA Titer, CSF  
INTERPRETIVE INFORMATION: GABA-BR Ab IgG CBA-IFA Titer, CSF

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Page 8 of 9



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i20: GABA-BR Ab IgG CBA-IFA Titer, CSF

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i21: LGI1 Ab IgG CBA-IFA Titer, CSF

INTERPRETIVE INFORMATION: LGI1 Ab IgG CBA-IFA Titer, CSF

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i22: mGluR1 Ab IgG CBA-IFA Titer, CSF

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

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