

Autoimmune Neurologic Disease Panel With Reflex, Serum and CSF

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Autoimmune neurologic diseases represent a broad category of conditions characterized by immune dysregulation. Antibodies associated with these conditions may be present in the serum or cerebrospinal fluid (CSF) and can serve as useful markers of disease. Testing for these antineural antibodies should be considered when patients experience subacute onset of new, unexplained neurologic symptoms.

Disease Overview

Autoimmune neurologic diseases may localize to the peripheral nervous system or central nervous system (CNS). They can manifest with diverse symptoms including (but not limited to) brainstem or cerebellar syndromes, dysautonomia, encephalopathy, epilepsy, movement disorders, myelopathy, psychiatric changes, or rapidly progressive dementia. Antineural antibodies serve as useful markers of these diseases, and their detection may help establish a diagnosis, support treatment decisions, aid prognostication, serve as a prerequisite for enrollment in clinical trials, and guide the search for an associated malignancy.

Featured ARUP Testing

Autoimmune Neurologic Disease Panel With Reflex, Serum 3018965

Method: Semi-Quantitative Cell-Based Indirect Fluorescent Antibody / Qualitative Immunoblot / Quantitative Radioimmunoassay (RIA) / Semi-Quantitative Enzyme-Linked Immunosorbent Assay (ELISA) / Semi-Quantitative Indirect Fluorescent Antibody (IFA)

Autoimmune Neurologic Disease Panel With Reflex, CSF 3018967

Method: Semi-Quantitative Cell-Based Indirect Fluorescent Antibody / Qualitative Immunoblot / Quantitative Radioimmunoassay (RIA) / Semi-Quantitative Enzyme-Linked Immunosorbent Assay (ELISA) / Semi-Quantitative Indirect Fluorescent Antibody (IFA)

For more information about laboratory testing for autoimmune neurologic diseases, including detailed information about panel test selection, refer to the ARUP Consult Autoimmune Neurologic Diseases - Antineural Antibody Testing topic.

Test Description

ARUP's serum or CSF Autoimmune Neurologic Disease With Reflex panels can be used for the evaluation of patients with subacute onset of neurologic symptoms with possible autoimmune etiology. Testing for the presence of antineural antibodies in both serum and CSF is recommended in most situations. ¹

These panels cover a broad range of autoimmune neurologic phenotypes; for greater diagnostic yield and improved turnaround time, consider choosing a phenotype-specific panel (see table below) rather than a broad panel.

ARUP Phenotype-Specific Panels to Consider for Autoimmune Neurologic Disease			
ARUP Panel	Test Code		
	Serum	CSF	
Autoimmune Encephalopathy/Dementia Panel	3006201	3006202	
Autoimmune Epilepsy Panel	3006204	3006205	
Autoimmune Movement Disorder Panel	3018964	3018966	
Autoimmune Myelopathy Panel	3006208	3006209	
Autoimmune Dysautonomia Panel	3006203	_	
Autoimmune Pediatric CNS Disorders	3006210	3006211	

Regardless of the panel chosen, order only one panel for serum and/or one panel for CSF; many antineural antibodies are redundant between these panels, and choosing based on the predominant phenotype will provide the most meaningful results. To compare these panels and the antibodies included, refer to the ARUP Antineural Antibody Testing for Autoimmune Neurologic Disease page.

Testing for individual autoantibodies is also available separately and can be used for long-term monitoring.

Antibodies Tested and Methodology

Author Division Programment Method Invitivo Indivision Automation Programment CSF ACRE Ininding Ab, Igo ² IRA 08000 — ACRE Ininding Ab, Igo ² IRA 08000 — APPAR Ab, Igo BAHFA 30125 301257 ARMA-1 (HU) IFA reflex Its effect titer 207961 201841 ARMA-2 (RI) IFA reflex Its effect titer 201842 201842 ARMA-1 (HU) IFA reflex Its effect titer 201842 201844 ARMA-2 (RI) IFA reflex Its effect titer 201842 201986 ARMA-2 (RI) BAHFA, reflex Its effect titer 201942 201986 CV2 (RIMPS) Ab, Igo BAHFA, reflex Its effect titer 301692 301677 GABA-BR Ab, Igo BAHFA, reflex Its effect titer 30177 30167 GABA-BR Ab, Igo IRA 30177 30167 GABA-BR Ab, Igo BAHFA, reflex Its effect titer 30167 30167 GABA-BR Ab, Igo BAHFA, reflex Its effect titer 30167 30167 GABA-BR Ab, Igo BAHFA, reflex Its effect titer	Autoimmune Neurologic Disease	Autoimmune Neurologic Disease Panel With Reflex, Serum (3018965) and CSF (3018967): Antibodies Tested and Methodology			
ACHR binding Ab. igG	Autoantibody Marker	Method	Individual Autoantibody or Focused Panel Test Code		
AMPAR Ab, IgG BBAIFA 3001260 3001257 Amphiphysin Ab, IgG IB 2008893 3004510 ANNA-1 (Hu) IFA, reflex IB, reflex Itter 2007961 2010841 ANNA-2 (RI) IFA, reflex IBre reflex itter 2007961 2010841 AQP4 Ab, IgG CBAIFA, reflex itter 2013320 — CASPR2 Ab, IgG CBAIFA, reflex itter 3006999 3017001 DPDYA Ab, IgG CBAIFA, reflex itter 3004359 3004512 CBAB-AR Ab, IgG CBAIFA, reflex itter 3006008 3006003 CBAB-BR Ab, IgG CBAIFA, reflex itter 3001270 3001267 GAD65 Ab ELISA 2001771 3002788 Ganglionic AChR Ab, IgG RIA 3003020 — ITPR1 Ab, IgG CBAIFA, reflex itter 3006013 3006023 Kelch-like protein 11 CBAIFA, reflex itter 3018907 3018508 LGII Ab, IgG CBAIFA, reflex itter 3018907 3018508 Ma2/Ta Ab, IgG CBAIFA, reflex itter 3006044 3006039			Serum	CSF	
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AQP4 Ab, IgG CBA-IFA, reflex titer 2013320 — CASPR2 Ab, IgG CBA-IFA, reflex titer 2009452 3001986 CV2 (CRMP-5) Ab, IgG CBA-IFA, reflex titer 3016999 3007001 DPPX Ab, IgG CBA-IFA, reflex titer 3006008 3006003 GABA-RA Ab, IgG CBA-IFA, reflex titer 3001270 3001267 GAD65 Ab ELISA 2001771 3002788 Ganglionic AChR Ab, IgG RIA 3003020 — IgLON5 Ab, IgG CBA-IFA, reflex titer 3006018 3006013 ITPR1 Ab, IgG CBA-IFA, reflex titer 3006018 3006023 Kelch-like protein 11 CBA-IFA, reflex titer 3018507 3018508 Ma2/Ta Ab, IgG CBA-IFA, reflex titer 300464 3001992 Ma2/Ta Ab, IgG CBA-IFA, reflex titer 3006044 3006039 MOG Ab, IgG CBA-IFA, reflex titer 3001277 — NMDAR Ab, IgG CBA-IFA, reflex titer 3004221 2005164 PCCA-17/DNER IFA, reflex Ib, reflex titer 2007961 2010841	ANNA-1 (Hu)	IFA, reflex IB, reflex titer	2007961	2010841	
CASPR2 Ab, IgG CBA-IFA, reflex titer 2009452 3001986 CV2 (CRMP-5) Ab, IgG CBA-IFA, reflex titer 3016999 3017001 DPPX Ab, IgG CBA-IFA, reflex titer 3006008 3006003 GABA-BR Ab, IgG CBA-IFA, reflex titer 3001270 3001267 GAD65 Ab ELISA 2001771 3002788 Ganglionic AChR Ab, IgG RIA 3003020 - IgLON5 Ab, IgG CBA-IFA, reflex titer 3006018 3006013 ITPR1 Ab, IgG CBA-IFA, reflex titer 3006018 3006023 Kelch-like protein 11 CBA-IFA, reflex titer 3018507 3018508 LGI1 Ab, IgG CBA-IFA, reflex titer 3018507 3018508 Ma2/Ta Ab, IgG IB 3017441 3017440 mGIUR1 Ab, IgG CBA-IFA, reflex titer 3006044 3006039 MOG Ab, IgG CBA-IFA, reflex titer 3001277 - NMDAR Ab, IgG CBA-IFA, reflex titer 2004221 2005164 PCCA-1 (Yo) IFA, reflex Ib, reflex titer 2007961 2010841 <td>ANNA-2 (Ri)</td> <td>IFA, reflex IB, reflex titer</td> <td>2007961</td> <td>2010841</td>	ANNA-2 (Ri)	IFA, reflex IB, reflex titer	2007961	2010841	
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Ma2/Ta Ab, IgG IB 3017441 3017440 mGluR1 Ab, IgG CBA-IFA, reflex titer 3006044 3006039 MOG Ab, IgG CBA-IFA, reflex titer 3001277 - NMDAR Ab, IgG CBA-IFA, reflex to titer 2004221 2005164 PCCA-1 (Yo) IFA, reflex IB, reflex titer 2007961 2010841 PCCA-Tr/DNER IFA, reflex IB, reflex titer 2007961 2010841 P/Q-type VGCC Ab, IgG RIA 0092628 - SOX1 (AGNA) Ab, IgG IB 3002885 3002886	Kelch-like protein 11	CBA-IFA, reflex titer	3018507	3018508	
mGluR1 Ab, IgG CBA-IFA, reflex titer 3006044 3006039 MOG Ab, IgG CBA-IFA, reflex titer 3001277 — NMDAR Ab, IgG CBA-IFA, reflex to titer 2004221 2005164 PCCA-1 (Yo) IFA, reflex IB, reflex titer 2007961 2010841 PCCA-Tr/DNER IFA, reflex IB, reflex titer 2007961 2010841 P/Q-type VGCC Ab, IgG RIA 0092628 — SOX1 (AGNA) Ab, IgG IB 3002885 3002886	LGI1 Ab, IgG	CBA-IFA, reflex titer	2009456	3001992	
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NMDAR Ab, IgG CBA-IFA, reflex to titer 2004221 2005164 PCCA-1 (Yo) IFA, reflex IB, reflex titer 2007961 2010841 PCCA-Tr/DNER IFA, reflex IB, reflex titer 2007961 2010841 P/Q-type VGCC Ab, IgG RIA 0092628 — SOX1 (AGNA) Ab, IgG IB 3002885 3002886	mGluR1 Ab, IgG	CBA-IFA, reflex titer	3006044	3006039	
PCCA-1 (Yo) IFA, reflex IB, reflex titer 2007961 2010841 PCCA-Tr/DNER IFA, reflex IB, reflex titer 2007961 2010841 P/Q-type VGCC Ab, IgG RIA 0092628 — SOX1 (AGNA) Ab, IgG IB 3002885 3002886	MOG Ab, IgG	CBA-IFA, reflex titer	3001277	-	
PCCA-Tr/DNER IFA, reflex IB, reflex titer 2007961 2010841 P/Q-type VGCC Ab, IgG RIA 0092628 — SOX1 (AGNA) Ab, IgG IB 3002885 3002886	NMDAR Ab, IgG	CBA-IFA, reflex to titer	2004221	2005164	
P/Q-type VGCC Ab, IgG RIA 0092628 — SOX1 (AGNA) Ab, IgG IB 3002885 3002886	PCCA-1 (Yo)	IFA, reflex IB, reflex titer	2007961	2010841	
SOX1 (AGNA) Ab, IgG IB 3002885 3002886	PCCA-Tr/DNER	IFA, reflex IB, reflex titer	2007961	2010841	
	P/Q-type VGCC Ab, IgG	RIA	0092628	-	
VGKC Ab, IgG RIA 2004890 3001387	SOX1 (AGNA) Ab, IgG	IB	3002885	3002886	
	VGKC Ab, IgG	RIA	2004890	3001387	

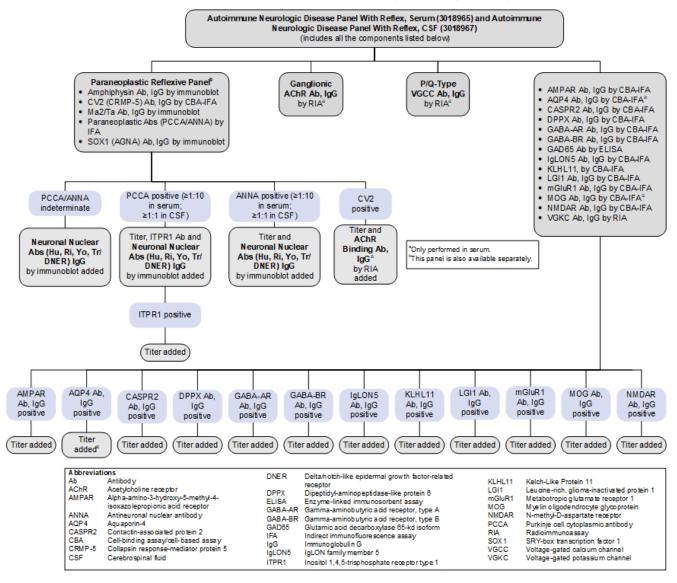
Autoantibody Marker	Method	Individual Autoantibody or Focused Panel Test Code	
		Serum	CSF

^aPerformed via reflex only, depending on the results of other autoantibody tests; refer to Reflex Patterns flowchart.

Ab, antibody; AChR, acetylcholine receptor; AGNA, antiglial nuclear antibody; AMPAR, alpha-amino-3-hydroxy-5-methyl-4-izoxazolepropionic acid receptor; ANNA, antineuronal nuclear antibody; AQP4, aquaporin-4; CASPR2, contactin-associated protein 2; CBA, cell-binding assay/cell-based assay; CRMP-5, collapsin response-mediator protein 5; DNER, Delta/notch-like epidermal growth factor-related receptor; DPPX, dipeptidyl-aminopeptidase-like protein 6; GABA-AR, gamma-aminobutyric acid receptor, type A; GABA-BR, gamma aminobutyric acid receptor, type B; GAD65, glutamic acid decarboxylase antibody 65-kd isoform; IFA, indirect immunofluorescence assay; Ig, immunoglobulin; IgLON5; IgLON family member 5; ITPR1, inositol 1,4,5-triphosphate receptor type 1; LGI1, leucine-rich, glioma-inactivated protein 1; mGluR1, metabotropic glutamate receptor 1; MOG, myelin oligodendrocyte glycoprotein; NMDAR, N-methyl-D-aspartate receptor antibody; PCCA, Purkinje cell cytoplasmic antibody; RIA, radioimmunoassay; SOX1, SRY-box transcription factor 1; VGCC, voltage-gated calcium channel; VGKC, voltage-gated potassium channel

Reflex Patterns

Autoimmune Neurologic Disease Panel With Reflex, Serum (3018965) and CSF (3018967)



Limitations

These tests do not include all known antineural antibodies:

- · Some antibodies are extremely rare or are of uncertain clinical significance.
- As testing for newly described antibodies becomes available and their clinical relevance is established, these panels will evolve to reflect
 these discoveries.

Test Interpretation

Results

Results must be interpreted in the clinical context of the individual patient; test results (positive or negative) should not supersede clinical judgement.

Autoimmune Neurologic Disease Panel With Reflex, Serum (<u>3018965</u>) and CSF (<u>3018967</u>): Results Interpretation			
Result	Interpretation		
Positive for ≥1 autoantibodies	Autoantibody(ies) detected May support a diagnosis of autoimmune neurologic disease Consider a focused search for malignancy based on antibody-tumor associations		
Negative	No autoantibodies detected A diagnosis of autoimmune neurologic disease is not excluded		

References

1. Budhram A, Dubey D, Sechi E, et al. Neural antibody testing in patients with suspected autoimmune encephalitis. Clin Chem. 2020;66(12):1496-1509.

ARUP Laboratories is a nonprofit enterprise of the University of Utah and its Department of Pathology. 500 Chipeta Way, Salt Lake City, UT 84108 (800) 522-2787 | (801) 583-2787 | aruplab.com | arupconsult.com

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