
Lab Dept: Other Fluids

Test Name: PEDIATRIC AUTOIMMUNE CNS DISORDERS
EVALUATION, CSF

General Information

Lab Order Codes: PCDEC

Synonyms: Peds Autoimmune Central Nervous System Eval, Spinal Fluid

CPT Codes: 86255 x10 – Fluorescent noninfectious agent, antibody screen, each antibody
86341 – Islet cell antibody

Possible reflex testing (at an additional charge):

84182 x6 – Western blot, with interpretation and report, each
86255 x10 – Fluorescent noninfectious agent, antibody screen, each antibody
86256 x 7 – Fluorescent noninfectious agent, titer, each antibody

Test Includes: If indirect immunofluorescence assay (IFA) patterns suggest ANNA-1 antibody, then ANNA-1 Immunoblot and ANNA-2 Immunoblot are performed at an additional charge.

If IFA patterns suggest ANNA-2 antibody, then ANNA-2 immunoblot, ANNA1 immunoblot, and ANNA-2 antibody IFA are performed at an additional charge.

If IFA patterns suggest ANNA-3 antibody, then ANNA-3 IFA is performed at an additional charge.

If IFA patterns suggest PCA-1 antibody, then PCA-1 immunoblot and PCA-1 IFA are performed at an additional charge.

If IFA patterns suggest PCA-2 antibody, then PCA-2 IFA is performed at an additional charge.

If IFA patterns suggest PCA-Tr antibody, then PCA-Tr immunoblot is performed at an additional charge.

If IFA patterns suggest amphiphysin antibody, then amphiphysin antibody IFA is performed at an additional charge.

If IFA patterns suggest AGNA antibody, then AGNA immunoblot and amphiphysin antibody IFA titer are performed at an additional charge.

If IFA pattern suggests NMDA-R antibody, then NMDA-R IFA titer is performed at an additional charge.

If IFA pattern suggests AMPA-R antibody, then AMPA-R antibody cell-binding assay (CBA) and AMPA-R IFA titer are performed at an additional charge.

If IFA pattern suggest GABA-B-R antibody, then GABA-B-R IFA titer is performed at an additional charge.

If IFA pattern suggest DPPX antibody, then DPPX antibody CBA and DPPX IFA titer are performed at an additional charge.

If IFA pattern suggest mGluR1 antibody, then mGluR1 antibody CBA and mGluR1 IFA titer are performed at an additional charge.

If IFA pattern suggest GFAP antibody, then GFAP antibody CBA and GFAP IFA titer are performed at an additional charge.

If NMO/AQP4-IgG fluorescence-activated cell sorting (FACS) screen assay requires further investigation, then NMO/AQP4-IgG FACS titration assay is performed at an additional charge.

Logistics

Test indications: Evaluating children with autoimmune central nervous system disorders using spinal fluid specimens.

Lab Testing Sections: Other Fluids - Sendouts

Referred to: Mayo Clinic Laboratories – (Mayo test: PCDEC)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 8 – 11 days

Special Instructions: N/A

Specimen

Specimen Type: CSF

Container: Screw-capped, sterile, plastic vial

Draw Volume: 4.0 mL (Minimum: 2.0 mL) CSF

Processed Volume: Same as Draw Volume

Collection: Routine CSF collection

Special Processing: Lab Staff: Aliquot 4.0 (min: 2.0) mL CSF. Store and ship refrigerated in plastic vial.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens

Interpretive

Reference Range:

Antibody:	Reference Range:
Anti-Neuronal Nuclear Ab Type 1	Negative at <1:2*
CASPR-2 IgG CBA	Negative
DPPX Ab IFA	Negative
GABA-B-R Ab CBA	Negative
GAD65 Ab Assay	<0.02 nmol/L
GFAP IFA	Negative
mGluR1 Ab IFA	Negative
LGI1-IgG CGA	Negative
NMDA-R Ab CBA	Negative
NMO/AQP4 FACS	Negative
Purkinje Cell Cytoplasm Ab Type Tr	<1:2*
Anti-Glial Nuclear Ab Type 1	<1:2
AGNA-1 Immunoblot	Negative
Amphiphysin Immunoblot	Negative
AMPA-R Ab CBA	Negative
Amphiphysin Ab	<1:2
AMPA-R Ab IF Titer Assay	<1:2
Anti-Neuronal Nuclear Ab Type 2	<1:2*

Reflex Reference Ranges:

ANNA-1 Immunoblot	Negative
ANNA-2 Immunoblot	Negative
Anti-Neuronal Nuclear Ab Type 3	<1:2*
DPPX Ab CBA	Negative
DPPX Ab IFA Titer	<1:2
GABA-B-R Ab IF Titer Assay	<1:2
GFAP CBA	Negative
GFAP IFA Titer	<1:2
mGluR1 Ab CBA	Negative
mGluR1 Ab IFA Titer	<1:2
NMDA-R Ab IF Titer Assay	<1:2
NMO/AQP4 FACS Titer	<1:2
PCA-1 Immunoblot	Negative
Purkinje Cell Cytoplasmic Ab Type 1	<1:2*
Purkinje Cell Cytoplasmic Ab Type 2	<1:2*
PCA-Tr Immunoblot	Negative
*Neuron-restricted patterns of IgG staining that do not fulfill criteria for ANNA-1, ANNA-2, ANNA-3, PCA-1, PCA-2 or PCA-Tr may be reported as "unclassified anti-neuronal IgG." Complex patterns that include non-neuronal elements may be reported as "uninterpretable."	

Limitations: Negative

Methodology: Indirect immunofluorescence Assay (IFA), Radioimmunoassay (RIA), Immunoblot (IB), Cell Binding Assay (CBA), NMO-IgG Fluorescence-Activated Cell Sorting Assay (FACS), MOG-IgG1 Fluorescence-Activated Cell Sorting Assay (FACS)

References: [Mayo Clinic Laboratories](#) (May 2020)