



# Test Definition: APBCC

Adaptor Protein 3 Beta2 (AP3B2) Antibody,  
Cell-Binding Assay, Spinal Fluid

## Overview

### Useful For

The differential diagnosis of patients presenting with mixed cerebellar and sensory ataxia and myeloneuropathy

Evaluating AP3B2 (adaptor protein 3 beta2)-IgG by cell-binding assay using spinal fluid specimens

### Testing Algorithm

If the indirect immunofluorescence (IFA) pattern suggests AP3B2 (adaptor protein 3 beta2), then this test and AP3B2 antibody IFA titer will be performed at an additional charge.

### Method Name

Only orderable as part of a profile. For more information see MAC1 / Myelopathy, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid

Cell-Binding Assay (CBA)

### NY State Available

Yes

## Specimen

### Specimen Type

CSF

### Specimen Required

Only orderable as a part of a profile. For more information see MAC1 / Myelopathy, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid

**Container/Tube:** Sterile vial

**Preferred:** Vial number 1

**Acceptable:** Any vial

**Specimen Volume:** 1.5 mL

### Specimen Minimum Volume

See Specimen Required

### Reject Due To

Gross	Reject
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hemolysis	
Gross lipemia	Reject
Gross icterus	Reject

## Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
CSF	Refrigerated (preferred)	28 days	
	Ambient	72 hours	
	Frozen	28 days	

## Clinical & Interpretive

### Clinical Information

AP3B2 (adaptor protein 3 beta2)-IgG is a marker of an autoimmune disorder unified by gait instability as the predominant neurologic presentation. Patients present with either cerebellar, dorsal column, or sensory neuronal dysfunction. Clinical improvement following treatment has been reported. AP3B2 autoimmunity appears rare, is accompanied by ataxia (sensory or cerebellar), and is potentially treatable.

### Reference Values

Only orderable as a part of a profile. For more information see MAC1 / Myelopathy, Autoimmune/Paraneoplastic Evaluation, Spinal Fluid

Negative

### Interpretation

A positive result supports a diagnosis of neurological autoimmunity. Neurological phenotypes encountered include cerebellar ataxia, spinocerebellar ataxia, myelopathy, sensory neuropathy and autonomic neuropathy. Neurological stabilization or improvement may occur with immune therapy.

### Cautions

A negative result does not exclude neurological autoimmunity or cancer.

### Clinical Reference

Honorat JA, Lopez-Chiriboga AS, Kryzer, TJ, et al: Autoimmune gait disturbance accompanying adaptor protein-3B2-IgG. *Neurology*. 2019 Sep 3;93(10):e954-e963

## Performance

### Method Description

Patient specimen is applied to a composite slide containing transfected and nontransfected HEK-293 cells. After

incubation and washing, fluorescein-conjugated goat-antihuman IgG is applied to detect the presence of patient IgG binding. (Package insert: IIFT: Neurology Mosaics, Instructions for the indirect immunofluorescence test. EUROIMMUN; FA\_112d-1\_A\_UK\_C13, 02/2019)

**PDF Report**

No

**Day(s) Performed**

5 days if negative/10 days if positive

**Report Available**

5 to 10 days

**Specimen Retention Time**

2 days

**Performing Laboratory Location**

Mayo Clinic Laboratories - Rochester Main Campus

**Fees & Codes****Fees**

- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact [Customer Service](#).

**Test Classification**

This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. It has not been cleared or approved by the US Food and Drug Administration.

**CPT Code Information**

86255

**LOINC® Information**

Test ID	Test Order Name	Order LOINC® Value
APBCC	AP3B2 CBA, CSF	101907-4

Result ID	Test Result Name	Result LOINC® Value
615860	AP3B2 CBA, CSF	101907-4