



## Test Definition: ANCA2

Cytoplasmic Neutrophil Antibodies,  
Inflammatory Bowel Disease Panel, Serum

### Overview

#### Useful For

Measurement of antineutrophil cytoplasmic antibodies as a part of a profile to aid in distinguishing between ulcerative colitis and Crohn disease in patients for whom the specific diagnosis is unclear based on endoscopic, pathologic, and imaging evaluations

This test is **not useful for** determining the extent of disease in patients with inflammatory bowel disease or determining the response to disease-specific therapy including surgical resection of diseased intestine.

#### Method Name

Only orderable as part of a profile. For more information see IBDP2 / Inflammatory Bowel Disease Serology Panel, Serum.

Indirect Immunofluorescent Assay (IFA)

#### NY State Available

Yes

### Specimen

#### Specimen Type

Serum

#### Specimen Required

Only orderable as part of a profile. For more information see IBDP2 / Inflammatory Bowel Disease Serology Panel, Serum.

**Supplies:** Sarstedt Aliquot Tube, 5 mL (T914)

**Collection Container/Tube:**

**Preferred:** Serum gel

**Acceptable:** Red top

**Submission Container/Tube:** Plastic vial

**Specimen Volume:** 1 mL Serum

**Collection Instructions:** Centrifuge and aliquot serum into a plastic vial.

#### Specimen Minimum Volume

Serum: 0.4 mL

#### Reject Due To

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Gross hemolysis	Reject
Gross lipemia	Reject
Gross icterus	OK
Heat-treated specimen	Reject

### Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated (preferred)	21 days	
	Frozen	21 days	

### Clinical & Interpretive

#### Clinical Information

Inflammatory bowel disease (IBD) refers to 2 diseases, ulcerative colitis (UC) and Crohn disease (CD), both of which result from chronic inflammation in the gastrointestinal (GI) tract.(1) CD is characterized by chronic diarrhea, abdominal pain, and fatigue.(2) In comparison, UC frequently presents with bloody diarrhea that is of an urgent nature.(3) Inflammation in UC most frequently affects the rectum and proximal colon and presents with continue mucosal involvement. In CD, inflammation can affect almost any area of the GI tract and is usually evidenced as patchy, transmural lesions.

Diagnosis of IBD is primarily based on clinical evaluation, endoscopy with biopsy, and imaging studies.(4) Because CD and UC are characterized by GI inflammation, fecal calprotectin can be used to differentiate IBD from noninflammatory conditions such as irritable bowel syndrome (IBS). Fecal calprotectin is useful in excluding IBD as a diagnosis and avoiding unnecessary endoscopic or imaging procedures.

Both CD and UC are associated with the presence of various antimicrobial and autoantibodies.(5,6) Patients with UC often have measurable antineutrophil cytoplasmic antibodies (ANCA), which react with as yet uncharacterized target antigens in human neutrophils; in contrast, patients with CD often have measurable IgA and/or IgG antibodies, which react with cell wall mannan of *Saccharomyces cerevisiae*. Despite these associations, current guidelines indicate that testing for these antibodies is not sufficiently sensitive for use in the diagnosis of IBD.(2,3) Rather, these antibodies should be limited to distinguishing between CD and UC in cases where the specific diagnosis is unclear based on pathologic and imaging studies.

#### Reference Values

Only orderable as part of a profile. For more information see IBDP2 / Inflammatory Bowel Disease Serology Panel, Serum.

Negative (not detectable)

#### Interpretation

The presence of antineutrophil cytoplasmic antibodies (ANCA) in the absence of IgA and IgG anti-*Saccharomyces cerevisiae* antibodies (ASCA) is consistent with the diagnosis of ulcerative colitis; the presence of IgA and IgG ASCA in the absence of ANCA is consistent with Crohn disease.

### Cautions

Results from this test should not be exclusively relied upon to establish the diagnosis of ulcerative colitis (UC) or Crohn disease (CD) or to distinguish between these 2 diseases. Antineutrophil cytoplasmic antibodies (ANCA) are most useful for distinguishing between UC and CD when assessed in conjunction with *Saccharomyces cerevisiae* IgA and IgG antibodies (ASCA).

Some patients with CD have detectable ANCA, and some patients with UC have detectable IgA and/or IgG (ASCA). Some patients with UC or CD do not have detectable ANCA, IgA ASCA, or IgG ASCA.

ANCA results may be reported as indeterminate if interfering antinuclear antibodies are present.

### Clinical Reference

1. Rose NR, Mackay IR, eds. Inflammatory bowel diseases. In: The Autoimmune Diseases. Elsevier; 2008
2. Lichtenstein GR, Loftus EV, Afzali A, et al. ACG Clinical Guideline: Management of Crohn's Disease in Adults. Am J Gastroenterol. 2025;120(6):1225-1264
3. Rubin DT, Ananthakrishnan AN, Siegel CA, Barnes EL, Long MD. ACG Clinical Guideline Update: Ulcerative Colitis in Adults. AM J Gastroenterol. 2025;120(6):1187-1224
4. Clark C, Turner J. Diagnostic modalities for inflammatory bowel disease: Serologic markers and endoscopy. Surg Clin North Am. 2015;95(6):1123-1141
5. Zhou G, Song Y, Yang W, et al: ASCA, ANCA, ALCA and many more: Are they useful in the diagnosis of inflammatory bowel disease? Dig Dis. 2016;34(1-2):90-97
6. Sendid B, Cornu M, Cordier C, Bouckaert J, Colombel JF, Poulain D. From ASCA breakthrough in Crohn's disease and *Candida albicans* research to thirty years of investigations about their meaning in human health. Autoimmun Rev. 2024;23(2):103486

## Performance

### Method Description

Testing for antineutrophil cytoplasmic antibodies is performed using a laboratory-developed immunoassay.(Unpublished Mayo method)

### PDF Report

No

### Day(s) Performed

Monday through Friday

### Report Available

3 to 7 days

## Specimen Retention Time

14 days

## Performing Laboratory Location

Mayo Clinic Laboratories - Rochester Superior Drive

## 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

86036

### LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
ANCA2	Cytoplasmic Neutrophilic Ab IBD, S	17355-9

Result ID	Test Result Name	Result LOINC® Value
610030	Cytoplasmic Neutrophilic Ab IBD, S	17355-9
614542	ANCA2 Interpretation	49308-0