

## Overview

### Useful For

Confirmation of positive IgG anti-cell surface (CS) and anti-basement membrane zone (BMZ) antibodies.

### Method Name

Only orderable as a reflex. For more information see CIFS / Cutaneous Immunofluorescence Antibodies, IgG and IgG4, Serum.

Indirect Immunofluorescence Assay (IFA)

### NY State Available

Yes

## Specimen

### Specimen Type

Serum

### Specimen Required

Only orderable as a reflex. For more information see CIFS / Cutaneous Immunofluorescence Antibodies, IgG and IgG4, Serum.

### Collection Container/Tube:

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

**Preferred:** Serum gel

**Acceptable:** Red top

**Submission Container/Tube:** Plastic vial

**Specimen Volume:** 2 mL

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

### Specimen Minimum Volume

0.5 mL

### Reject Due To

|                 |    |
|-----------------|----|
| Gross hemolysis | OK |
| Gross lipemia   | OK |
| Gross icterus   | OK |

**Specimen Stability Information**

| Specimen Type | Temperature              | Time    | Special Container |
|---------------|--------------------------|---------|-------------------|
| Serum         | Refrigerated (preferred) | 14 days |                   |
|               | Ambient                  | 14 days |                   |
|               | Frozen                   | 30 days |                   |

**Clinical & Interpretive****Clinical Information**

Immunoglobulin G (IgG) anti-basement membrane zone (BMZ) antibodies are produced by patients with pemphigoid. In most patients with bullous pemphigoid, serum contains IgG anti-BMZ antibodies, while in cicatricial pemphigoid circulating IgG anti-BMZ antibodies are found in a minority of cases.

Circulating IgG anti-BMZ antibodies are also detected in patients with epidermolysis bullosa acquisita and bullous eruption of lupus erythematosus.

Immunoglobulin G anti-cell surface (CS) antibodies are produced by patients with pemphigus. The titer of IgG anti-CS antibodies generally correlates with disease activity of pemphigus.

**Reference Values**

Only orderable as a reflex. For more information see CIFS / Cutaneous Immunofluorescence Antibodies, IgG and IgG4, Serum.

Negative

**Interpretation**

Results will be negative in individuals without any known autoimmune blistering disease.

Indirect immunofluorescence (IF) testing may be diagnostic when histologic or direct IF studies are only suggestive, nonspecific, or negative.

Anti-cell surface antibodies correlate with a diagnosis of pemphigus.

Anti-basement membrane zone antibodies correlate with a diagnosis of bullous pemphigoid, cicatricial pemphigoid, epidermolysis bullosa acquisita, or bullous eruption of lupus erythematosus.

**Cautions**

Results should be interpreted in conjunction with clinical information, histologic pattern, and results of direct immunofluorescence (IF) study. In particular, the finding of low titer (< or =1:80) anti-cell surface antibodies should not be used alone (ie, without histologic or direct IF support) to confirm a diagnosis of pemphigus.

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**Clinical Reference**

1. Beutner EH, Chorzelski TP, Kumar V, eds. Immunopathology of the Skin. 3rd ed. Wiley Medical Publication; 1987
2. Gammon WR, Briggaman RA, Inman AO 3rd, Queen LL, Wheeler CE. Differentiating anti-lamina lucida and anti-sublamina densa anti-BMZ antibodies by indirect immunofluorescence on 1.0 M sodium chloride-separated skin. J Invest Dermatol. 1984;82(2):139-144
3. Tirumalae R, Kalegowda IY. Role of BIOCHIP indirect immunofluorescence test in cutaneous vesiculobullous diseases. Am J Dermatopathol. 2020;42(5):322-328

**Performance****Method Description**

Frozen sections of primate esophagus are overlaid with dilutions of patient's serum, incubated, covered with fluorescein-conjugated IgG antiserum, and interpreted with a fluorescence microscope.(Unpublished Mayo method)

**PDF Report**

No

**Day(s) Performed**

Monday through Friday

**Report Available**

2 to 7 days

**Specimen Retention Time**

30 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**

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88350

**LOINC® Information**

| Test ID | Test Order Name    | Order LOINC® Value |
|---------|--------------------|--------------------|
| CIFST   | CIFS Titer, IgG, S | 104835-4           |

| Result ID | Test Result Name             | Result LOINC® Value |
|-----------|------------------------------|---------------------|
| 622323    | Cell Surface Ab Titer, IgG   | 104831-3            |
| 622324    | Basement Membrane Titer, IgG | 104836-2            |
| 622325    | Other                        | 48767-8             |