

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB: 9/23/1938
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 01/01/2017 12:34

Paraneoplastic Pemphigus Antibody Screen

ARUP test code 0092107

Paraneoplastic Pemphigus Ab Screen

See Note

IMMUNODERMATOLOGY REPORT

Specimen(s):
1. Serum specimen

Clinical/Diagnostic Information:
No clinical information provided.

DIAGNOSTIC INTERPRETATION

Negative IgG paraneoplastic pemphigus antibodies on rodent substrates

(See Results and Comments including additional test considerations)

RESULTS

Indirect Immunofluorescence

Paraneoplastic Pemphigus IgG Antibodies

IgG: Negative, rat bladder substrate
(cell surface and basement membrane zone)
Negative, mouse bladder substrate
(cell surface and basement membrane zone)
Negative, mouse heart substrate
(intercalating disks)
Negative, mouse liver substrate
(portal tracts)

Negative, monkey esophagus substrate
(cell surface and basement membrane zone)

Reference Range:

Positive - Titer greater than 1:5
Borderline - Titer 1:5
Negative - Titer less than 1:5

(H = high/positive)

COMMENTS
Specific

IgG paraneoplastic pemphigus antibodies to rat bladder, mouse bladder, mouse heart, and mouse liver substrates are not detected in this patient's serum by indirect immunofluorescence.

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 20-015-401090
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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4848

These findings do not provide support for, but do not rule out, the diagnosis of paraneoplastic pemphigus.

Clinical correlation is needed, including with direct immunofluorescence on a biopsy specimen, histopathological examination of formalin-fixed tissue, and other serum epithelial antibodies. Notably, various serum epithelial antibodies may be found in paraneoplastic pemphigus and other paraneoplastic presentations by various tests with differing sensitivities.

If indicated to further evaluate the immunopathological profile in this patient's serum, additional testing may be performed on this specimen by add-on test request through ARUP Client Services, 1-800-242-2787, option 2, for:

- IgG Pemphigus Antibody Panel (ARUP test number 0090650); and/or
- IgA Pemphigus (IgA Cell Surface) antibody testing (ARUP Test number 0092106); and/or
- Basement Membrane Zone Antibody Panel (ARUP test number 3001410).

Or the test panel that includes all of the above:

- Immunobullous Disease Antibody Panel (ARUP test number 3001409).

If it would be helpful to discuss this patient's case with this report, contact ARUP Client Services at 1-800-242-2787, option 2, and ask to speak with the Immunodermatology Laboratory at the University of Utah regarding patient results.

General

Negative Paraneoplastic Pemphigus Antibody Screen testing results do not rule out paraneoplastic/malignancy-associated disease. Positive Paraneoplastic Pemphigus Antibody Screen testing results indicate the presence of serum antibodies to multiple epithelia (simple, columnar, transitional) and against desmoglein 1, 3; desmoplakin 1, 2; envoplakin; periplakin; and/or BP 230 and BP 180. For positive antibody screen testing results without known malignancy, perform aggressive evaluation for malignancy. For negative results, correlate with histopathological examination of formalin-fixed tissue in addition to direct immunofluorescence on a perilesional biopsy specimen and epithelial antibodies in serum characteristic of other immunobullous diseases.

TESTING METHODS

Indirect Immunofluorescence

Paraneoplastic Pemphigus IgG Antibodies

The patient's serum is progressively diluted in calcium-containing buffer beginning at 1:5 in three two-fold screening dilutions, layered on rodent substrates including rat bladder, mouse bladder, mouse heart, and mouse liver and also on monkey esophagus substrate, and stained with fluorescein-conjugated anti-IgG using Analyte Specific Reagents (ASRs). When positive on rodent substrates, the serum is further diluted in two-fold reductions to the limiting dilution of antibody detection or to a maximum dilution of 1:40,960. These tests were developed and their performance characteristics determined by the Immunodermatology Laboratory at the University of Utah. They have not been cleared or approved by the U.S. Food and Drug Administration. ASRs are used in many laboratory tests necessary for standard medical care and generally do not require FDA approval. These tests should not be regarded as investigational or for research only. [Immunofluorescence studies, one antibody on five substrates]

██████████, MD
Immunodermatologist

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Patient: Patient, Example
ARUP Accession: 20-015-401090
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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Electronically signed 1/21/2020 12:58:19AM
Performed at: ARUP - University Hospital Laboratory, 417 Wakara
Way Salt Lake City UT 84108

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Paraneoplastic Pemphigus Ab Screen	20-015-401090	1/9/2020 3:02:00 PM	1/16/2020 8:26:00 AM	1/21/2020 5:40:00 PM

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at: