Test Definition: FGERA
IgE Receptor Antibody

Overview

Useful For
The test detects functional autoantibodies to the Fc-epsilon receptor (high affinity IgE receptor) or to IgE and is useful in the evaluation of chronic urticaria.

Method Name
Flow Cytometry

NY State Available
Yes

Specimen

Specimen Type
Serum

Specimen Required

Container/Tube:

Preferred: Red top tube

Acceptable: Serum gel tube

Specimen Volume: 1.0 mL

Collection Instructions: Draw blood in a plain, red-top tube(s) or serum gel tube(s). Separate serum from cells immediately by centrifugation and aliquot into a polypropylene or similar plastic tube. Send 1 mL of serum frozen in plastic vial.

Complete and submit with specimen:

1. National Jewish Immunology Diagnostics request form.

2. Patient's date of birth is required on the National Jewish Immunology Diagnostics request form

Specimen Minimum Volume
0.5 mL

Reject Due To

<table>
<thead>
<tr>
<th>Condition</th>
<th>Acceptance</th>
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</thead>
<tbody>
<tr>
<td>Hemolysis</td>
<td>Mild OK; Gross reject</td>
</tr>
<tr>
<td>Lipemia</td>
<td>NA</td>
</tr>
<tr>
<td>Icterus</td>
<td>NA</td>
</tr>
<tr>
<td>Other</td>
<td>NA</td>
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</tbody>
</table>

Specimen Stability Information
**Specimen Type** | **Temperature**       | **Time**   | **Special Container**
--- | --- | --- | ---
Serum | Frozen (preferred) | 365 days | 
| Refrigerated | 7 days | 
| Ambient | 48 hours | 

**Clinical and Interpretive**

**Reference Values**

0 - 12

**Interpretation**

Chronic autoimmune urticaria (CIU) may be associated with autoantibodies to the high affinity IgE receptor (Fc-epsilon R1) or to IgE. In the presence of the autoantibodies, cross-linking of the Fc-epsilon-R1 receptor occurs, leading to basophil activation. The laboratory tests for the activation of donor basophils by CIU serum by analyzing the expression of the basophil specific ectoenzyme, CD203c. CD203c is upregulated on the surface of basophils following activation. A positive result is indicative of the presence of autoantibodies associated with CIU, but may also be due to other basophil-activating serum factors. Results must be correlated with clinical findings. The reference range was developed by the National Jewish Health Advanced Diagnostic Laboratories by analyzing 80 healthy control serum samples.

**Clinical Reference**


**Performance**

**PDF Report**

No

**Day(s) and Time(s) Test Performed**

Monday, Thursday

**Analytic Time**

7 - 9 days

**Maximum Laboratory Time**

11 - 14 days

**Performing Laboratory Location**

National Jewish Health

**Fees and 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 Regional Manager. For assistance, contact Customer Service.

**Test Classification**
This test uses a kit/reagent designated by the manufacturer as "for research use, not for clinical use" as well as one or more reagents classified as an analyte specific reagent (ASR). The performance characteristics of this test have been validated by Advanced Diagnostic Laboratories at National Jewish Health. It has not been cleared or approved by the US Food and Drug Administration. The results are not intended to be used as the sole means for clinical diagnosis or patient management decisions. This laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high complexity clinical laboratory testing.

**CPT Code Information**
88184
88185 x 2

**LOINC® Information**

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<tr>
<th>Test ID</th>
<th>Test Order Name</th>
<th>Order LOINC Value</th>
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<tbody>
<tr>
<td>FGERA</td>
<td>IgE Receptor Antibody</td>
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<table>
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<tr>
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<th>Test Result Name</th>
<th>Result LOINC Value</th>
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<tbody>
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<td>Z5123</td>
<td>Basophils (%), CD203c</td>
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<tr>
<td>Z5124</td>
<td>Interpretation:</td>
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