MAYO CLINIC LABORATORIES

Test Definition: FIERA

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 in a polypropylene or similar plastic tube. Send 1 mL of serum frozen in plastic vial.

Specimen Minimum Volume

0.5 mL

Reject Due To

Hemolysis	Mild OK; Gross reject
Lipemia	NA
Icterus	NA
Other	NA

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum	Frozen (preferred)	365 days	
	Ambient	48 hours	

	Refrigerated	7 days	

Clinical & 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 CUI, 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
Chronic urticaria sera increase basophil CD203c expression. Yasnowsky KM1, Drekin SC, Efaw B, Shoen D, Vedanthan PL, Alam R, Harbek RJ, J Allergy Clin Immunol 2006 Jun; 117(6): 1430-4.

Performance

PDF Report
No

Day(s) Performed
Monday, Thursday

Report Available
11 to 14 days

Performing Laboratory Location
National Jewish Health

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.

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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

Test ID	Test Order Name	Order LOINC® Value
FIERA	IgE Receptor Antibody	Not Provided

Result ID	Test Result Name	Result LOINC® Value
Z5810	CD203c (Percent of Basophils)	Not Provided
Z5811	Interpretation:	Not Provided