MAYO CLINIC LABORATORIES

Test Definition: FHLCG

Immunoglobulin G (IgG) Heavy and Light Chain (HLC) Pairs, Kappa and Lambda with Ratio

Overview

Method Name
Turbidimetric

NY State Available
Yes

Specimen

Specimen Type
Serum

Specimen Required
Collection Container/Tube: Red top or serum gel
Submission Container/Tube: Plastic vial
Specimen Volume: 0.75 mL serum
Collection Instructions:
1. Centrifuge immediately after coagulation (30 minutes) to prevent hemolysis.
2. Aliquot 0.75 mL of serum into a plastic vial.
3. Send refrigerate

Specimen Minimum Volume
Serum: 0.5 mL

Reject Due To

Hemolysis	Reject
Lipemia	Reject
Microbially-contaminated specimen	Reject
Specimen containing particulate matter	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container

Serum	Refrigerated (preferred)	14 days	
	Ambient	14 days	
	Frozen	14 days	

Clinical & Interpretive

Clinical Information

Refer to www.labcorp.com/test-menu/

Reference Values

IgG Kappa: 4.03-9.78 g/L
IgG Lambda: 1.97-5.71 g/L
IgG Kappa:IgG Lambda ratio: 0.98-2.75

Interpretation

An elevated IgG heavy and light chain (HLC) pair ratio suggests a clonal proliferation of an IgG Kappa clone of plasma cells.
A low IgG HLC pair ratio suggests a clonal proliferation of an IgG Lambda clone of plasma cells.

Cautions

Decisions on patient evaluation and management must not be given on the basis of IgG Kappa, IgG Lambda, or IgG Kappa:IgG Lambda ratio measurements alone. Clinical history and other laboratory findings must be taken into account.

Heavy and light chain (HLC) quantitation should be used as a complementary method to serum protein electrophoresis.

The effect of therapeutic drugs on the measurement of IgG Kappa and IgG Lambda by this assay has not been evaluated.

Small increases in the concentrations of monoclonal IgG proteins may not result in an altered HLC pair ratio.

Performance

PDF Report

No

Day(s) Performed

Tuesday, Friday

Report Available

6 to 10 days

Performing Laboratory Location

LabCorp Burlington

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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.

CPT Code Information

83521 x 2

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
FHLCG	IgG Heavy Light Chains (HLC), S	74773-3

Result ID	Test Result Name	Result LOINC® Value
Z5613	IgG Kappa, S	74862-4
Z5614	IgG Lambda, S	74863-2
Z5615	IgG K/L HLC Ratio	74868-1