



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

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 |