



MAYO
Mayo Medical Laboratories
1-800-533-1710

NEW TEST ANNOUNCEMENT
NOTIFICATION DATE: 04/07/2014
EFFECTIVE DATE: 04/07/2014

IMMUNOGLOBULIN HEAVY AND LIGHT CHAIN (HLC) PAIRS, IGM KAPPA AND IGM LAMBDA

Test ID: HLCM

EXPLANATION: New test available for quantitation of Immunoglobulin heavy and light chain pairs, IgM Kappa and IgM Lambda.

USEFUL FOR:

- Distinguishing between broadly migrating monoclonal proteins and restricted polyclonal immunoglobulin responses
- Quantitating monoclonal IgM proteins that are difficult to quantitate on serum protein electrophoresis
- Providing a more specific quantitation of the monoclonal protein than quantitating total IgM

METHODOLOGY: Nephelometry

REFERENCE VALUES:

IgM kappa: 22-161 mg/dL

IgM lambda: 10-94 mg/dL

MK/ML ratio: 0.7900-4.61

*Pediatric reference ranges for total IgM [or IgG or IgA] are available in Mayo Medical Laboratory Test Catalog.

SPECIMEN REQUIREMENTS: Serum

Container/Tube:

Preferred: Red top

Acceptable: Serum gel

Specimen Volume: 1.0 mL

Minimum Volume: 0.5 mL

SPECIMEN STABILITY INFORMATION:

Specimen Type	Temperature	Time
Serum	Refrigerated (preferred)	28 days
	Ambient	28 days
	Frozen	28 days

CPT CODE: 82784-

83883 x 2

DAY(S) SET UP: Monday, Thursday

ANALYTIC TIME: 2 days

CAUTIONS:

- Heavy and light chain (HLC) quantitation should be used as a complementary method to serum protein electrophoresis.
- Small concentrations of monoclonal IgM proteins may not result in an altered HLC pair ratio.
- The serum monoclonal protein study (MPSS / Monoclonal Protein Study, Serum) and urine monoclonal protein study (MPSU / Monoclonal Protein Study, Urine) remain the assays of choice for initial detection of monoclonal proteins.

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager or
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