

Patient: [REDACTED]
 DOB: [REDACTED] Age: 72
 Patient Identifiers: [REDACTED]
 Visit Number (FIN): [REDACTED]

Gender: F

Client: [REDACTED]
 Physician: [REDACTED]

ARUP Test Code: 2002715
 Collection Date: 12/11/2020
 Received in lab: 12/13/2020
 Completion Date: 12/14/2020

Kappa Qnt Free Light Chains **116.52 mg/L H** (Ref Interval: 3.30-19.40)
 INTERPRETIVE INFORMATION: Kappa Qnt Free Light Chains
 Undetected antigen excess is a rare event but cannot be excluded. Free light chain results should always be interpreted in conjunction with other clinical and laboratory findings.

Lambda Qnt Free Light Chains 9.67 mg/L (Ref Interval: 5.71-26.30)

Kappa/Lambda Free Light Chain Ratio **12.05 H** (Ref Interval: 0.26-1.65)

Immunoglobulin G **463 mg/dL L** (Ref Interval: 768-1632)
 REFERENCE INTERVAL: Immunoglobulin G
 Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).

Immunoglobulin A **4190 mg/dL H** (Ref Interval: 68-408)
 REFERENCE INTERVAL: Immunoglobulin A
 Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).

Immunoglobulin M **16 mg/dL L** (Ref Interval: 35-263)
 REFERENCE INTERVAL: Immunoglobulin M
 Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).

Total Protein, Serum **9.3 g/dL H** (Ref Interval: 6.3-8.2)

Albumin **2.85 g/dL L** (Ref Interval: 3.75-5.01)

Alpha 1 Globulin 0.30 g/dL (Ref Interval: 0.19-0.46)

Alpha 2 Globulin 1.02 g/dL (Ref Interval: 0.48-1.05)

Beta Globulin **3.41 g/dL H** (Ref Interval: 0.48-1.10)

Gamma **1.72 g/dL H** (Ref Interval: 0.62-1.51)

Immunofixation IFE Done

SPEP/IFE Interpretation See Note
 M-spikes in the beta/gamma region. The monoclonal protein peaks collectively account for 4.51 g/dL of the total protein in the beta and gamma regions. This quantitation may include complement components. Suspicious band in the alpha-2 region. IFE pattern shows a dimerizing IgA type kappa monoclonal protein with an additional faint band in IgG. Other immunoglobulin levels (IgG and IgM) are



Patient: [REDACTED]
 ARUP Accession: 20-346-132190

Monoclonal Protein Study, Expanded Panel, Serum

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decreased.

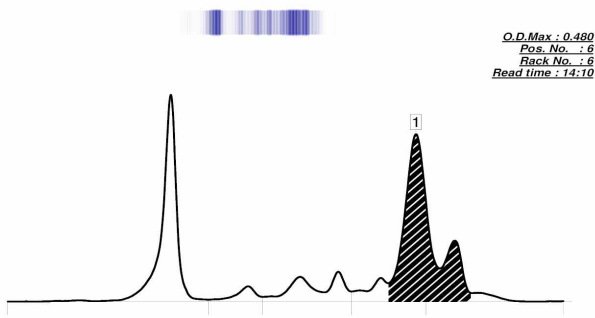
Note: Electrophoresis image and Immunofixation (IFE) Gel image, as applicable, continue on following page.



Monoclonal Protein Study, Expanded Panel, Serum

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Electrophoresis Image



Immunofixation (IFE) Gel Image

