Lab Dept: Chemistry

Test Name: IGA, SUBCLASSES

**General Information**

Lab Order Codes: IGAS

Synonyms: IgA Subclasses 1 and 2; IGA1 and IGA2

CPT Codes:
- 82784 – Gammaglobulin; IgA, IgD, IgG, IgM, each
- 82787 x2 – Immunoglobulin subclasses

Test Includes: IgA total, IgA subclass 1, IgA subclass 2 reported in mg/dL.

**Logistics**

Test Indications: Evaluate humoral immunity; monitor therapy in IgA myeloma. Selective IgA deficiency has an increased association with allergies, recurrent sinopulmonary infection, autoimmune disease.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Medical Laboratories (MML Test: IGAS)

Phone Numbers:
- MIN Lab: 612-813-6280
- STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 -3 days, performed Monday - Thursday

Special Instructions: N/A

**Specimen**

Specimen Type: Blood

Container: SST (Gold, marble or red) tube

Draw Volume: 3 mL (Minimum: 1.5 mL) blood

Processed Volume: 1 mL (Minimum: 0.5 mL) serum

Collection: Routine venipuncture
**Special Processing:** Lab Staff: Centrifuge specimen, remove serum aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimens

### Interpretive

**Reference Range:**

<table>
<thead>
<tr>
<th>Age</th>
<th>IgA1 (mg/dL)</th>
<th>IgA2 (mg/dL)</th>
<th>Total IgA (mg/dL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 2 years:</td>
<td>18 - 63</td>
<td>3 - 19</td>
<td>25 - 75</td>
</tr>
<tr>
<td>3 – 6 years:</td>
<td>25 - 126</td>
<td>2 - 31</td>
<td>31 - 153</td>
</tr>
<tr>
<td>7 – 12 yrs:</td>
<td>49 - 183</td>
<td>3 – 43</td>
<td>56 - 232</td>
</tr>
<tr>
<td>&gt;12 yrs:</td>
<td>54 - 296</td>
<td>10 - 96</td>
<td>79 - 399</td>
</tr>
</tbody>
</table>

Serum IgA is comprised of 80–90% IgA1 and 10–20% IgA2. Deficiencies in either subclass have been associated with anaphylactic transfusion reactions. Decreased IgA1 levels have been reported in patients with *Haemophilus influenzae* infection, whereas decreased IgA2 levels have been reported in patients with sinopulmonary infections.

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Nephelometry

**References:** [Mayo Medical Laboratories Web Page](https://www.mayoclinic.org) November 2017

**Updates:**

3/25/2004: Test moved from Specialty Laboratories to Mayo Medical Laboratories forward to Focus Technologies, Inc. Note: Change in methodology from Nephelometry to RID and change in reference ranges.


2/18/13: Test now performed internally at MML.

2/8/2016: Update tube types