### General Information

**Lab Dept:** Chemistry  
**Test Name:** IGA, SUBCLASSES

#### 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