**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:** 2 - 8 days, performed Monday - Thursday  
**Special Instructions:** N/A

### Specimen

**Specimen Type:** Blood  
**Container:** Red, marble or gold top 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:** IgA Subclasses:

<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](http://www.mayoclinic.org) (January 2013)

**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