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**Lab Dept:** Chemistry

**Test Name:** IGA, SUBCLASSES

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***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.

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***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

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***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

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**Interpretive**

**Reference Range:**

IgA Subclasses:			
Age	IgA1 (mg/dL)	IgA2 (mg/dL)	Total IgA (mg/dL)
0 – 2 years:	18 - 63	3 - 19	25 - 75
3 – 6 years:	25 - 126	2 - 31	31 - 153
7 – 12 yrs:	49 - 183	3 – 43	56 - 232
>12 yrs:	54 - 296	10 - 96	79 - 399

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](#) 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.  
7/3/2006: New reference ranges implemented for new nephelometry method at Focus. Previous method, RID.  
2/18/13: Test now performed internally at MML.  
2/8/2016: Update tube types