
Lab Dept: Chemistry

Test Name: IgA (IMMUNOGLOBULIN A)

General Information

Lab Order Codes: IGA

Synonyms: Immunoglobulin A

CPT Codes: 82784 – Gammaglobulin; IgA, each

Test Includes: IgA concentration reported in mg/dL.

Logistics

Test Indications: Immunoglobulins, also known as humoral antibodies, recognize antigens and initiate mechanisms that destroy antigens. Approximately 10-15% of serum immunoglobulin is IgA.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 day

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Green top (Li Heparin) tube, preferred
Alternate: SST (gold, marble or red) top tube

Draw Volume: 0.6 mL blood

Processed Volume: 0.2 mL serum/plasma

Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen, remove aliquot into a plastic sample cup. Store at refrigerated temperatures for up to 7 days. Centrifuge turbid or particulate samples prior to analysis.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen; lipemic or turbid samples that cannot be clarified by centrifugation

Interpretive

Reference Range:

Age:	Range (mg/dL)::
0 - <1 year	1 - 29 mg/dL
1 - <3 years	4 - 90 mg/dL
3 - <6 years	26 - 147 mg/dL
6 - <14 years:	47 - 221 mg/dL
14 - <19 years:	53 - 287 mg/dL
Adult Male:	63 - 484 mg/dL
Adult Female:	65 - 421 mg/dL

Critical Values: N/A

Limitations: Results from samples containing paraproteins (abnormal monoclonal antibodies) may incorrectly fall within the reference range. Samples with elevated total protein concentrations or samples from patients with suspected paraproteinemia can be screened using other laboratory methods such as protein electrophoresis. In addition, analysis of one or more diluted samples should be performed to ensure that consistent results are obtained. Specimens collected in EDTA collection tubes are not acceptable for use. Results should be evaluated by comparing to other clinically relevant information.

Turbidity and particles in samples can interfere with the assay. Therefore, particulate matter should be removed by centrifugation prior to running the assay.

Methodology: Nephelometry, Siemens Dimension Vista 500

References: Tietz (1999) Textbook of Clinical Chemistry, 3rd edition, Philadelphia, WB Saunders Co, pp 507-509

Bio-Rad Liquichek Immunology Control Package Insert, Bio-Rad Laboratories, Irvine, CA, USA

CALIPER Reference Range Studies. Accessed October 27, 2020

Abbott Alinity c Specific Protein Calibrator Package Insert, Abbott Diagnostics Division, Abbott Park, IL, 60064, USA, February 2018

Abbott Alinity c IgA Reagent Kit Instructions for Use, Abbott Diagnostics Division, Abbott Park, IL, 60064, USA. Revised June 2019

Updates:

2/8/2016: Update alt tube types

7/8/2016: Update to specimen rejection

11/23/2020: Updated for Method Abbott, Siemens Vista removed.