
Lab Dept: Serology

Test Name: THYROPEROXIDASE (TPO) ANTIBODIES

General Information

Lab Order Codes: ATPO

Synonyms: Anti-TPO

CPT Codes: 86376 - Microsomal antibodies

Test Includes: Thyroperoxidase antibody level reported in IU/mL.

Logistics

Test Indications: As an aid in the diagnosis of thyroid autoimmune disorders. Differentiating thyroid autoimmune disorders from non-autoimmune goiter or hypothyroidism.

Lab Testing Sections: Serology – Performed on Minneapolis Campus

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: Performed daily

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: SST (Gold, marble or red)
Alternate: Green (LiHep or NaHep) or Lavender (EDTA)

Draw Volume: 1.2 mL (Minimum: 0.6 mL) blood

Processed Volume: 0.4 mL (Minimum: 0.2 mL) serum

Collection: Routine blood collection

Special Processing: Lab Staff: Centrifuge specimen within 4 hours of collection, remove serum aliquot into a plastic screw-capped round bottom vial. Ship and store at refrigerated temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens

Interpretive

Reference Range: <9.0 IU/mL

Note: Reference values apply to all ages

Critical Values: N/A

Limitations: Antibody measurement represents one parameter in a multi-criteria diagnostic process when making a diagnosis of thyroid disease, a combination of test methods should be used in conjunction with clinical symptoms.

About 20% of asymptomatic patients may present with anti-TPO autoantibodies, reflecting the prevalence in apparently healthy individual. The presence of Anti-TPO may also depend on age, gender and geographic region of the selected population.

Some specimens may not dilute linearly because of the heterogeneity of the autoantibodies with respect to physicochemical properties.

Heterophile and HAMA antibodies may interfere with immunoassay methods.

Methodology: Chemiluminescent MicroParticle Immunoassay (CMIA)

References: Abbott Architect Anti-TPO Reagent package insert, Abbott Laboratories Diagnostics Division (February 2015) Abbott Park, IL, 60064, USA

Abbott Alinity i Anti-TPO Reagent Instructions for Use (February 2018) Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA

Abbott Alinity i Anti-TPO Calibrator Kit Package Insert (March 2018) Abbott Laboratories Diagnostics Division, Abbott Park, IL, 60064, USA

CALIPER Reference Interval Studies (accessed 10/27/2020)

Updates: 5/15/2018: New method, moved to in-house test.
12/10/2020: Updated for method Abbott Alinity.