### General Information

**Lab Dept:** Serology  
**Test Name:** THYROPEROXIDASE (TPO) ANTIBODIES  

**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 physiochemical 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, Abbott Park, IL. Updated February 2015

**Updates:** 5/15/2018: New method, moved to in-house test.