



Labsmart Software

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<https://www.yourlabname.in/>**Mr. Saubhik Bhaumik**

Age / Sex : 27 YRS / M
Referred by : Dr. Sachin Patil (MBBS)
Reg. no. : 1062



1062

Registered on : 12/11/2024 04:04 PM
Collected on : 12/11/2024
Received on : 12/11/2024
Reported on : 12/11/2024 04:06 PM

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**BIOCHEMISTRY**

TEST	VALUE	UNIT	REFERENCE
ANTI TPO	18.6	IU/mL	< 30 IU/mL

Physiological basis

TPO is a membrane-bound glycoprotein. This enzyme mediates the oxidation of iodide ions and incorporation of iodine into tyrosine residues of thyroglobulin. Its synthesis is stimulated by thyroid-stimulating hormone (TSH). TPO is the major antigen involved in thyroid antibody-dependent cell-mediated cytotoxicity. TPO Ab can be measured by enzyme-linked immunosorbent assay (ELISA) or automated immunoassay.

Interpretation

Increased in: Hashimoto thyroiditis (> 99%), Idiopathic myxedema (> 99%), Graves disease (75–85%), Addison disease (50%), and Riedel thyroiditis. Low titers are present in approximately 10% of normal individuals and patients with non-immune thyroid disease.

Comments

TPO antibody is an antibody to the main autoantigenic component of microsomes and is a more sensitive and specific test than hemagglutination assays for microsomal antibodies in the diagnosis of autoimmune thyroid disease. TPO antibody testing alone is often sufficient to detect autoimmune thyroid disease. TPO antibody titers correlate with TSH levels; their presence may herald impending thyroid failure.

~~~ End of report ~~~

Mr. Sachin Sharma  
DMLT, Lab Incharge

Dr. A. K. Asthana  
MBBS, MD Pathologist

NOT VALID FOR MEDICO LEGAL PURPOSE

Work timings: Monday to Sunday, 8 am to 8 pm

Please correlate clinically. Although the test results are checked thoroughly, in case of any unexpected test results which could be due to machine error or typing error or any other reason please contact the lab immediately for a free evaluation.