

Laboratory Medicine Care Division

Immunology

TSH Receptor Antibodies

General information

All forms of autoimmune thyrotoxicosis (Graves' disease, Hashimoto's thyrotoxicosis, neonatal thyrotoxicosis) are caused by the production of TSH-R stimulating autoantibodies. These autoantibodies bind to the receptor and activate it, leading to stimulation of the thyroid gland independent of the normal feedback-regulated thyrotropin TSH stimulation.

Specimen transport: At room temperature

Repeat frequency: At significant change of clinical symptoms

Special precautions: None

Laboratory information

Analyte: Thyroid Stimulating Hormone Receptor Antibodies

Units: IU/L

Normal reference range: 0 - 0.4 IU/L

Volume and sample type: 4ml serum

Method: ELISA

Turnaround time (calendar days from sample receipt to authorised result): Median – 5

Participation in EQA Scheme: UK NEQAS for Thyroid Antibodies

Clinical information

Indications for the test: Autoimmune thyrotoxicosis

Factors affecting the test: None

(Last updated January 2026)