

## 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)**