9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

# Thyroglobulin Human

*Thyroglobulin Human*
*NTP0059*

## Product Overview

| | |
|---|---|
| Name | Thyroglobulin Human |
| **Description** | |
| Thyroglobulin Human | |
| Accession (Primary) | P01266 |
| **Synonyms** | |
| Thyroglobulin, TGN, AITD3, TG. | |
| **Introduction** | |
| Thyroglobulin (TG) represents one of the main autoantigenic targets in autoimmune thyroid disease of humans. TG is a large globular dimeric glycoprotein with a total molecular weight of 660 kDa, which occupies a key precursor role in the biosynthesis of the thyroid hormones. Approximately 75% of the total protein content of the thyroid follicle consists of TG. The thyroid gland uses the Thyroglobulin in order to produce the thyroid hormones thyroxine (T4) and triiodothyronine (T3). Thyroglobulin is produced by the thyroid epithelial cells (thyrocytes) which form spherical follicles. Thyroglobulin is subsequently secreted and stored in the follicular lumen. Patients with Hashimoto's thyroiditis or Graves' disease, frequently develop antibodies against Thyroglobulin. Tg-specific antibodies help in the diagnosis of the above diseases, however they also may be present in apparently healthy euthyroid individuals. Blood Thyroglobulin levels can be used as a tumor marker for certain kinds of thyroid cancer, and the may also be elevated in cases of Graves' disease. | |
| **Source** | |
| Human thyroid glands. | |
| **Physical Appearance** | |
| Sterile Filtered Off-White lyophilized (freeze-dried) powder. | |
| **Formulation** | |
| Lyophilized from 0.02M NH4HCO3. May contain traces of buffer salts. | |
| **Stability** | |
| Human Thyroglobulin although stable at room temperature for 3 weeks, should be stored between 2-8°C. | |
| **Purity** | |
| Greater than 98.0%. | |
| **Solubility** | |

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Use phosphate buffer, pH>7.0 containing 0.15M NaCl is recommended.

**Human Virus Test**

Starting material tested and certified negative for HIV I & II antibodies, Hepatitis B surface antigen, Hepatitis C antibodies, Syphilis and HIV-1/HBV/HCV NAT.

**Precautions**

Thyroglobulin Human is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P01266 )