

## Product datasheet for **TA801456M**

### Thyroglobulin (TG) Mouse Monoclonal Antibody [Clone ID: OTI3E12]

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Clone Name:           | OTI3E12   |
| Applications:         | IHC, WB   |
| Recommended Dilution: | WB 1:2000, IHC 1:150  |
| Reactivity:           | Human   |
| Host:                 | Mouse   |
| Isotype:              | IgG2b   |
| Clonality:            | Monoclonal  |
| Immunogen:            | Human recombinant protein fragment corresponding to amino acids 2511-2768 of human TG (NP_003226) produced in E.coli. |
| Formulation:          | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| Concentration:        | 1 mg/ml   |
| Purification:         | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)             |
| Conjugation:          | Unconjugated  |
| Storage:              | Store at -20°C as received.   |
| Stability:            | Stable for 12 months from date of receipt.  |
| Gene Name:            | thyroglobulin   |
| Database Link:        | <a href="#">NP_003226</a><br><a href="#">Entrez Gene 7038 Human</a><br><a href="#">P01266</a>                         |

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**Background:**

Thyroglobulin (Tg) is a glycoprotein homodimer produced predominantly by the thyroid gland. It acts as a substrate for the synthesis of thyroxine and triiodothyronine as well as the storage of the inactive forms of thyroid hormone and iodine. Thyroglobulin is secreted from the endoplasmic reticulum to its site of iodination, and subsequent thyroxine biosynthesis, in the follicular lumen. Mutations in this gene cause thyroid dysmorphogenesis, manifested as goiter, and are associated with moderate to severe congenital hypothyroidism. Polymorphisms in this gene are associated with susceptibility to autoimmune thyroid diseases (AITD) such as Graves disease and Hashimoto thyroiditis. [provided by RefSeq, Nov 2009]

**Synonyms:**

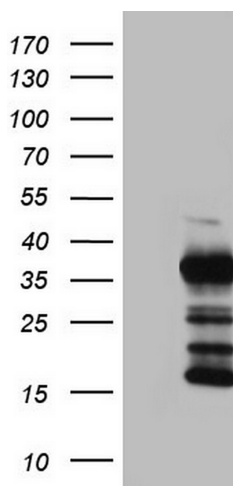
AITD3; TGN

**Protein Families:**

Druggable Genome

**Protein Pathways:**

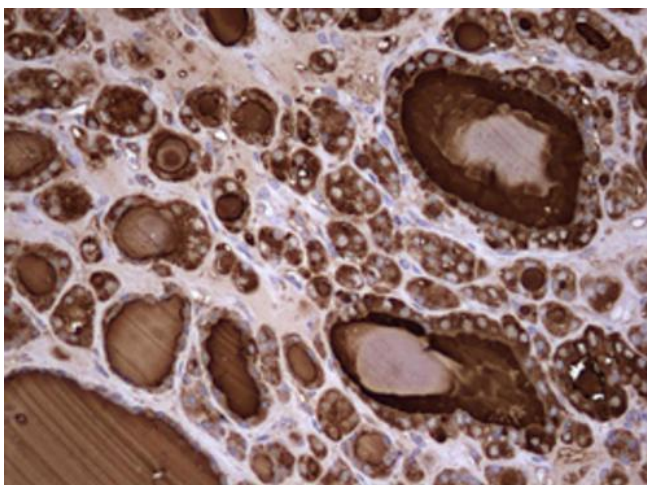
Autoimmune thyroid disease

**Product images:**


Human recombinant protein fragment corresponding to amino acids 2511-2768 of human TG (NP\_003226) produced in E.coli.



Immunohistochemical staining of paraffin-embedded Human thyroid tissue within the normal limits using anti-TG mouse monoclonal antibody. ([TA801456]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-TG mouse monoclonal antibody. ([TA801456]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.