

Recombinant Human TG, GST-tagged

Cat. No. TG-8266H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human TG partial ORF (NP_003226, 2671 a.a. - 2768 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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 dysharmonogenesis, 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.
Molecular Mass	36.52 kDa
AA Sequence	PYEFSRKVPTFATPWPDFVPRAGGENYKEFSELLPNRQGLKKADCSFWS KYISLKT TSADGAKGGQSAESEEEE LTAGSGLREDLLSLQEPGSKTYSK
Applications	ELISA; WB-Re; AP; Array
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

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Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	TG thyroglobulin [Homo sapiens (human)]
Official Symbol	TG
Synonyms	TG; TGN; AITD3; thyroglobulin
Gene ID	7038
mRNA Refseq	NM_003235
Protein Refseq	NP_003226
MIM	188450
UniProt ID	P01266
Chromosome Location	8q24
Pathway	Autoimmune thyroid disease; Thyroid hormone synthesis
Function	NOT carboxylesterase activity; hormone activity; NOT neurexin family protein binding

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