



Anti-TG (aa 2671-2768) polyclonal antibody (DPAB-DC3057)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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.
Immunogen	TG (NP_003226, 2671 a.a. ~ 2768 a.a) partial recombinant protein with GST tag. The sequence is PYEFSRKVPTFATPWPDFVPRAGGENYKEFSELLPNRQGLKKADCSFWSKYISSLKTSAD GAKGGQSAESEEEELTAGSGLREDLLSLQEPGSKTYSK
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	TG thyroglobulin [Homo sapiens (human)]
Official Symbol	TG
Synonyms	TG; thyroglobulin; TGN; AITD3;
Entrez Gene ID	7038
Protein Refseq	NP_003226
UniProt ID	P01266
Chromosome Location	8q24
Pathway	Autoimmune thyroid disease; Thyroxine (Thyroid Hormone) Production;
Function	hormone activity; NOT neurexin family protein binding; NOT receptor activity;