



Anti-TG monoclonal antibody, clone 2H4 (CABT-14037MH)

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

PRODUCT INFORMATION

Antigen Description	<p>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.</p> <p>Mouse monoclonal antibody raised against a partial recombinant TG.</p>
Immunogen	TG (NP_003226, 2659 a.a. ~ 2769 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	2H4
Conjugate	Unconjugated
Applications	WB, IFA, sELISA, ELISA
Sequence Similarities	FSHFIRSGNPYPYEF SRKVPTFATPWPDFVPRAGGENYKEFSELLPNRQGLKKADCSFW SKYISSLKTSADGAKGGQSAESEEELTAGSGLREDLLSLQEPGSKTYSK*
Size	100 µg

Buffer	In 1x PBS, pH 7.2
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	TG thyroglobulin [Homo sapiens]
Official Symbol	TG
Synonyms	thyroglobulin; AITD3; TGN; Tg; TDH3; OTTHUMP00000227159
Entrez Gene ID	7038
Protein Refseq	NP_003226
UniProt ID	P01266
Chromosome Location	8q24
Pathway	Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem
Function	NOT carboxylesterase activity; chaperone binding; hormone activity; NOT neurexin binding; NOT receptor activity