Elabscience®

Human TG Antibody Pair Set

Catalog No.	E-KAB-0125	Applications	ELISA
Synonyms	AITD3, TGN		

Kit components & Storage

Title	Specifications	Storage
Human TG Capture Antibody	1 vial, 100 µ g	Store at -20° C for one year.
		Avoid freeze / thaw cycles.
Human TG Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20° C for one year.
		Avoid freeze / thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0125)		
		Human TG Capture Antibody	Human TG Detection Antibody (Biotin)	
Immunogen	Immunogen	Native Protein	Native Protein	
Information	Swissprot	P01266		
Product details	Reactivity	Human	Human	
	Host	Rabbit	Rabbit	
	Conjugation	Unconjugated	Biotin	
	Concentration	0.5mg/mL	/	
	Buffer	PBS with 0.04% Proclin 300, 50%	PBS with 0.04% Proclin 300, 1%	
		glycerol, pH 7.4	protective protein, 50% glycerol, pH	
			7.4	
	Purify	Antigen Affinity	Antigen Affinity	
	Specificity	Detects Human TG in ELISAs.		

For Research Use Only

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Applications

Human TG Sandwich ELISA Assay:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4µg/mL	Human TG Capture Antibody	
Capture			
ELISA	1:1000-1:10000	Human TG Detection Antibody	tical Dom
Detection		(Biotin)	E 0.1 0.01 0.01 0.1 1 10 100 1000 Human TG concentration(ng/mL)

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

Thyroglobulin (Tg) is a glycoprotein homodimer produced predominantly by the thryroid 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 dyshormonogenesis, 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 thryoiditis.