

Thyroid Peroxidase IgG ELISA Kit

Catalog # KA0952

Size 1 Kit

Specification

Product Description	Thyroid Peroxidase IgG ELISA Kit is used for the detection of IgG antibody to thyroid peroxidase in human serum or plasma.
Suitable Sample	Plasma, Serum
Sample Volume	100 uL (diluted)
Label	HRP-conjugate
Detection Method	Colorimetric
Reactivity	Human
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

Gene Info — TPO

Entrez GeneID	7173
Gene Name	TPO
Gene Alias	MSA, TPX
Gene Description	thyroid peroxidase
Omim ID	274500 606765

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes a membrane-bound glycoprotein. The encoded protein acts as an enzyme and plays a central role in thyroid gland function. The protein functions in the iodination of tyrosine residues in thyroglobulin and phenoxo-ester formation between pairs of iodinated tyrosines to generate the thyroid hormones, thyroxine and triiodothyronine. Mutations in this gene are associated with several disorders of thyroid hormonogenesis, including congenital hypothyroidism, congenital goiter, and thyroid hormone organification defect IIA. Multiple transcript variants encoding distinct isoforms have been identified for this gene. Additional splice variants have been described but their biological natures have not been determined. [provided by RefSeq]

Other Designations

OTTHUMP00000115304|OTTHUMP00000115536|thyroid microsomal antigen|thyroperoxidase

Publication Reference

- [WITHDRAWN: A female autoimmunity gene exists: DDX3X.](#)

Dillon SP, Kurien BT, Maier-Moore JS, Wiley GB, Gaffney PM, Scofield RH.

Medical Hypotheses 2012 Aug; [Epub].

Application: Quant, Human, DNA samples from patients with systemic lupus erythematosus

Pathway

- [Autoimmune thyroid disease](#)
- [Cytokine-cytokine receptor interaction](#)
- [Hematopoietic cell lineage](#)
- [Jak-STAT signaling pathway](#)
- [Metabolic pathways](#)
- [Tyrosine metabolism](#)

Disease

- [Atherosclerosis](#)
- [Calcinosis](#)
- [Coronary Artery Disease](#)
- [Disease Progression](#)

- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Hypothyroidism](#)
- [Myocardial Infarction](#)
- [Thyroid Dysgenesis](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)