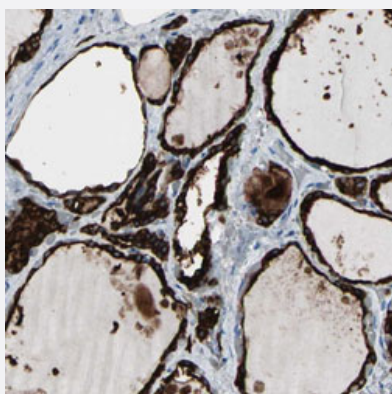


TPO polyclonal antibody

Catalog # PAB30419 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human thyroid with TPO polyclonal antibody (Cat # PAB30419) shows strong cytoplasmic positivity in glandular cells at 1:200-1:500 dilution.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human TPO.
Immunogen	Recombinant protein corresponding to human TPO.
Sequence	RELEKHSLSRVICDNTGLTRVPMDAFQVGKFPEDFESCDSTGMNLEAWRETFPQDDKCGFPES VENGDFVHCEESGRRVLVYSCRHGYELQGREQLTCTQEGWDFQPPLCKDVNECADGA
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).

Storage Instruction

Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Gene Info — TPO

Entrez GeneID[7173](#)**Protein Accession#**[P07202](#)**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

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](#)