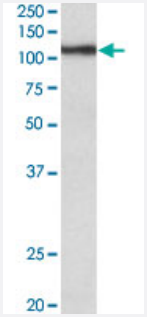
TPO polyclonal antibody

Catalog # PAB24605 Size 100 ug

Applications



Western Blot (Tissue lysate)

TPO polyclonal antibody (Cat # PAB24605) (0.3 ug/mL) staining of human thyroid lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of TPO.
Immunogen	A synthetic peptide corresponding to internal region of human TPO.
Sequence	C-TRHVIQVSNEVVTDD
Host	Goat
Theoretical MW (kDa)	110
Reactivity	Human
Specificity	This antibody is expected to recognize reported isoforms a (NP_000538.3) and e (NP_783653.1).
Form	Liquid
Purification	Antigen affinity purification
Recommend Usage	ELISA (1:16000) Western Blot (0.3-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 0.5 mg/mL Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA)

Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — TPO

Entrez GeneID	7173
Protein Accession#	NP_000538.3;NP_783650.1;NP_783652.1;NP_783653.1
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 an d plays a central role in thyroid gland function. The protein functions in the iodination of tyrosine re sidues in thyroglobulin and phenoxy-ester formation between pairs of iodinated tyrosines to gener ate the thyroid hormones, thyroxine and triiodothyronine. Mutations in this gene are associated wit h several disorders of thyroid hormonogenesis, including congenital hypothyroidism, congenital g oiter, and thyroid hormone organification defect IIA. Multiple transcript variants encoding distinct is oforms have been identified for this gene. Additional splice variants have been described but thei r 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