

Product datasheet for **TA323628**

Thyroid Peroxidase (TPO) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 25-100 Positive control: Human thyroid cancer Predicted cell location: Cytoplasm
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Full length fusion protein
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	thyroid peroxidase
Database Link:	NP_000538 Entrez Gene 7173 Human P07202

Background: 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 phenoxy-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; but the full-length nature of some variants has not been determined.



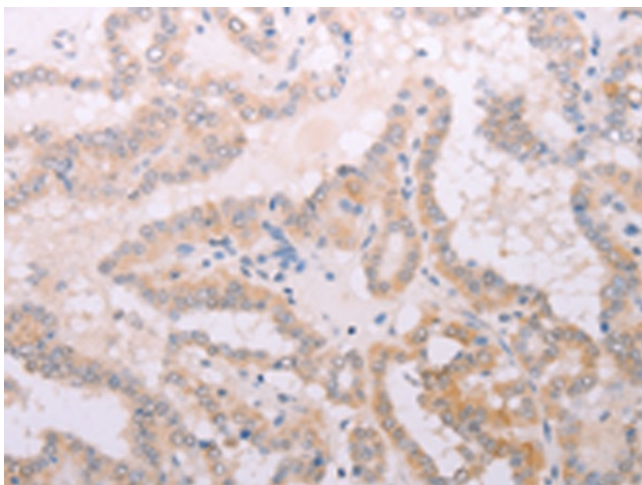
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Synonyms: MSA; TDH2A; TPX

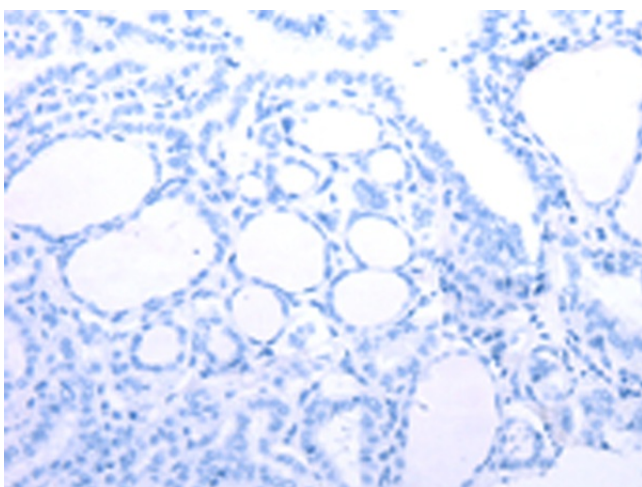
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway, Metabolic pathways, Tyrosine metabolism

Product images:



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA323628 (TPO Antibody) at dilution 1/50 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA323628 (TPO Antibody) at dilution 1/50, treated with fusion protein. (Original magnification: ×200)