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# Product datasheet for TA335246

## Thyroid Peroxidase (TPO) Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | WB |
| **Recommended Dilution:** | WB |
| **Reactivity:** | Human |
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Immunogen:** | The immunogen for anti-TPO antibody is: synthetic peptide directed towards the N-terminal region of Human TPO. Synthetic peptide located within the following region: GASNTALARWLPPVYEDGFSQPRGWNPGFLYNGFPLPPVREVTRHVIQVS |
| **Formulation:** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Purification:** | Affinity Purified |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Stable for 12 months from date of receipt. |
| **Predicted Protein Size:** | 67 kDa |
| **Gene Name:** | thyroid peroxidase |
| **Database Link:** | NP_000538<br>Entrez Gene 7173 Human<br>P07202 |

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**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.

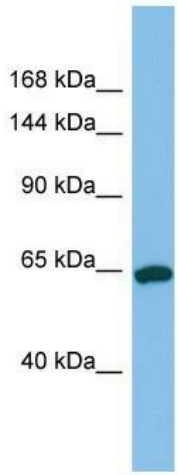
**Synonyms:** MSA; TDH2A; TPX

**Note:** Immunogen Sequence Homology: Rat: 100%; Human: 100%; Mouse: 100%; Dog: 93%; Pig: 93%; Horse: 86%; Rabbit: 86%; Yeast: 83%; Guinea pig: 79%

**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:




Host: Rabbit; Target Name: TPO; Sample Tissue: Jurkat Whole Cell lysates; Antibody Dilution: 1.0 ug/ml

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