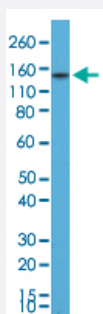


RecomAb™

# TPO monoclonal antibody, clone RM368

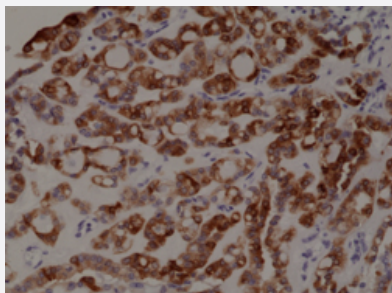
Catalog # MAB22000      Size 100 uL

## Applications



### Western Blot (Cell lysate)

Western Blot (Cell lysate) analysis of TT cell lysates.



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

Immunohistochemical staining of human thyroid.

## Specification

|                     |   |
|---------------------|---|
| Product Description | Rabbit recombinant monoclonal antibody raised against human TPO.                                  |
| Antibody Species    | Rabbit  |
| Immunogen           | Original antibody is raised against a synthetic peptide corresponding to C-terminus of human TPO. |
| Reactivity          | Human   |
| Specificity         | This antibody reacts to human TPO (Thyroid peroxidase).   |
| Form                | Liquid  |

|                     |  |
|---------------------|--|
| Purification        | Protein A purification   |
| Isotype             | IgG  |
| Recommend Usage     | Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1000)<br>Western Blot (1:200-1000)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In PBS (50% glycerol, 1% BSA, 0.09% sodium azide)  |
| Storage Instruction | Store at -20°C.<br>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

- Western Blot (Cell lysate)

Western Blot (Cell lysate) analysis of TT cell lysates.

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

Immunohistochemical staining of human thyroid.

## Gene Info — TPO

|                  |   |
|------------------|---|
| Entrez GeneID    | <a href="#">7173</a>  |
| Gene Name        | TPO   |
| Gene Alias       | MSA, TPX  |
| Gene Description | thyroid peroxidase  |
| Omim ID          | <a href="#">274500</a> <a href="#">606765</a>   |
| Gene Ontology    | <a href="#">Hyperlink</a>   |
| 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](#)