

Thyroid peroxidase/TPO Rabbit mAb

Catalog No.: A27678 **Recombinant**

Basic Information

Observed MW

Calculated MW

103kDa

Category

Primary antibody

Applications

IF-P, IHC-P, ELISA

Cross-Reactivity

Human

CloneNo number

ARC74077

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.

Recommended Dilutions

IF-P 1:200 - 1:2000

IHC-P 1:500 - 1:2000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

7173

Swiss Prot

P07202

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

MSA; TPX; TDH2A

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

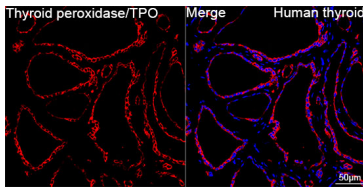
Affinity purification

Storage

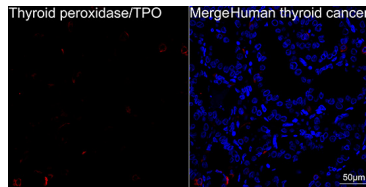
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

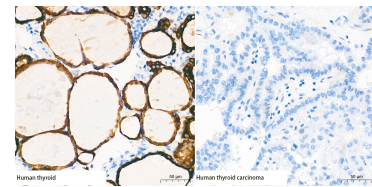
Validation Data



Confocal imaging of paraffin-embedded Human thyroid tissue using Thyroid peroxidase/TPO Rabbit mAb (A27678, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Human thyroid cancer(negative) tissue using Thyroid peroxidase/TPO Rabbit mAb (A27678, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Human thyroid and thyroid carcinoma tissue using Thyroid peroxidase/TPO Rabbit mAb (A27678) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.