

# Thyroglobulin Rabbit mAb

Catalog No.: A3405

Recombinant

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

305kDa

### Category

Primary antibody

### Applications

ELISA, IHC-P, IF/ICC

### Cross-Reactivity

Human

### CloneNo number

ARC1973

## Background

Thyroglobulin (Tg) is a glycoprotein homodimer produced predominantly by the thyroid gland. It acts as a substrate for the synthesis of thyroxine and triiodothyronine as well as the storage of the inactive forms of thyroid hormone and iodine. Thyroglobulin is secreted from the endoplasmic reticulum to its site of iodination, and subsequent thyroxine biosynthesis, in the follicular lumen. Mutations in this gene cause thyroid dyshormonogenesis, manifested as goiter, and are associated with moderate to severe congenital hypothyroidism.

Polymorphisms in this gene are associated with susceptibility to autoimmune thyroid diseases (AITD) such as Graves disease and Hashimoto thyroiditis.

## Recommended Dilutions

IHC-P 1:50 - 1:200

IF/ICC 1:50 - 1:200

## Immunogen Information

### Gene ID

7038

### Swiss Prot

P01266

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 300-450 of human Thyroglobulin (P01266).

### Synonyms

TGN; AITD3; Thyroglobulin

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

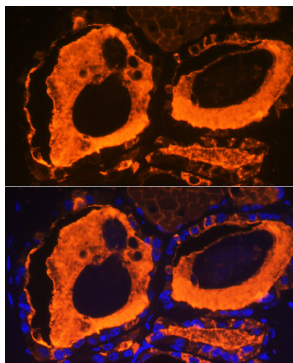
### Purification

Affinity purification

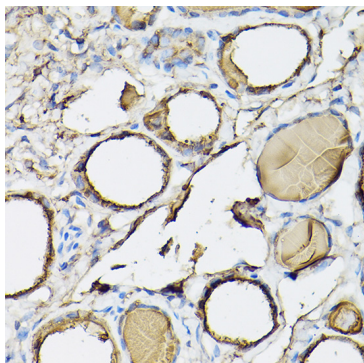
### Storage

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

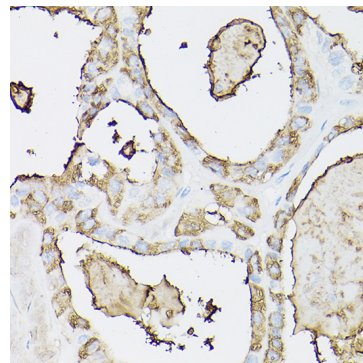
Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.



Immunofluorescence analysis of paraffin-embedded human thyroid using Thyroglobulin Rabbit mAb (A3405) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of Thyroglobulin in paraffin-embedded Human normal thyroid using Thyroglobulin Rabbit mAb (A3405) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Thyroglobulin in paraffin-embedded human thyroid cancer using Thyroglobulin Rabbit mAb (A3405) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.