

# CoraLite®594-conjugated Thyroglobulin Monoclonal antibody

Catalog Number: **CL594-60272**

## Basic Information

**Catalog Number:**

CL594-60272

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2a

**Immunogen Catalog Number:**

AG18070

**GenBank Accession Number:**

BC140933

**GeneID (NCBI):**

7038

**UNIPROT ID:**

P01266

**Full Name:**

thyroglobulin

**Calculated MW:**

2768 aa, 305 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

4D3C5

**Recommended Dilutions:**

IF-P 1:50-1:500

**Excitation/Emission maxima wavelengths:**

588 nm / 604 nm

## Applications

**Tested Applications:**

IF-P

**Species Specificity:**

human

**Positive Controls:**

IF-P : human thyroid cancer tissue,

## Background Information

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 dysmorphogenesis, 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.

## Storage

**Storage:**

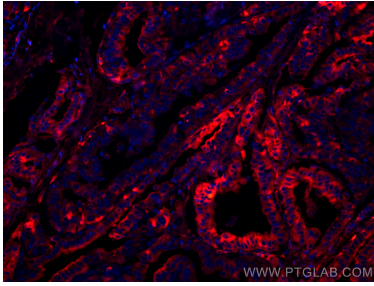
Store at -20°C. Avoid exposure to light.

**Storage Buffer:**

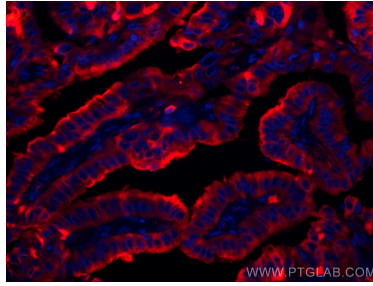
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human thyroid cancer tissue using CoraLite®594 Thyroglobulin antibody (CL594-60272, Clone: 4D3C5 ) at dilution of 1:200.



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