

For Research Use Only

# CoraLite® Plus 488-conjugated Thyroglobulin Monoclonal antibody

Catalog Number: CL488-60272



## Basic Information

<b>Catalog Number:</b> CL488-60272	<b>GenBank Accession Number:</b> BC140933	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7038	<b>CloneNo.:</b> 4D3C5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P01266	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Isotype:</b> IgG2a	<b>Full Name:</b> thyroglobulin	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG18070	<b>Calculated MW:</b> 2768 aa, 305 kDa	

## Applications

<b>Tested Applications:</b> IF-P	<b>Positive Controls:</b> IF-P : human thyroid cancer tissue,
<b>Species Specificity:</b> human	

## 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.

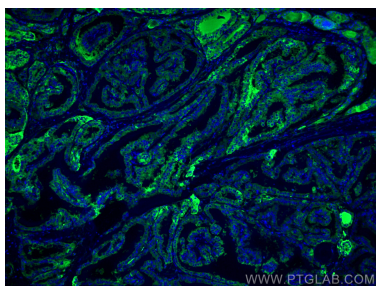
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

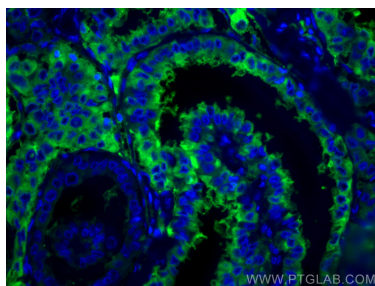
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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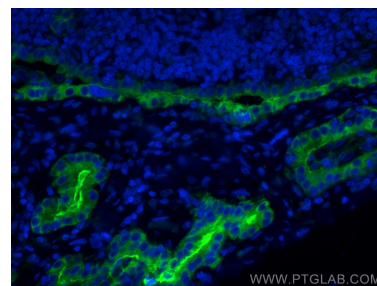
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human thyroid cancer tissue using CoraLite® Plus 488 Thyroglobulin antibody (CL488-60272, Clone: 4D3C5) at dilution of 1:200.



Immunofluorescent analysis of (4% PFA) fixed human thyroid cancer tissue using CoraLite® Plus 488 Thyroglobulin antibody (CL488-60272, Clone: 4D3C5) at dilution of 1:200.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human thyroid cancer tissue using CoraLite® Plus 488 Thyroglobulin antibody (CL488-60272, Clone: 4D3C5) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).