For Research Use Only

Thyroglobulin Monoclonal antibody

Catalog Number:60272-1-Ig 2 Publications

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Basic Information

Catalog Number:
60272-1-Ig

Size:
150ul , Concentration: 2100 μg/ml by Nanodrop and 1627 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG18070

GenBank Accession Number:
BC140933

GeneID (NCBI):
7038

Full Name:
thyroglobulin

Calculated MW:
2768 aa, 305 kDa

Purification Method:
Protein A purification

CloneNo.:
4D3C5

Recommended Dilutions:
IHC 1:50-1:500
IF 1:200-1:800

Applications

Tested Applications:
IF, IHC, ELISA

Cited Applications:
IF, IHC

Species Specificity:
human

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : human thyroid tissue, human thyroid cancer tissue

IF : human thyroid cancer tissue,

Background Information

Thyroglobulin (Tg) is a glycoprotein homodimer produced predominantly by the thryroid 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 thryoiditis.

Notable Publications

Author	Pubmed ID	Journal	Application
Hui Xiao	34925365	Front Immunol	IF
Xuemin Wang	33892730	Cancer Cell Int	IHC

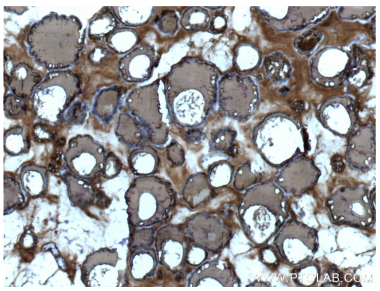
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

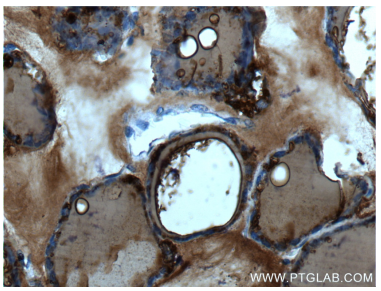
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

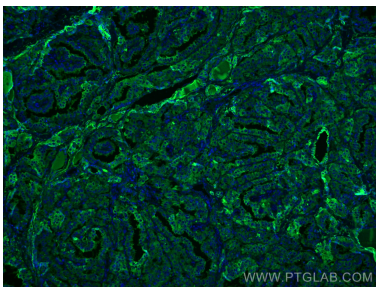
Selected Validation Data



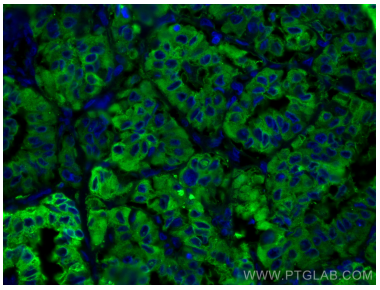
Immunohistochemical analysis of paraffin-embedded human thyroid tissue slide using 60272-1-Ig (Thyroglobulin antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human thyroid tissue slide using 60272-1-Ig (Thyroglobulin antibody at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed human thyroid cancer tissue using Thyroglobulin antibody (60272-1-Ig, Clone: 4D3C5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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