

For Research Use Only

Thyroglobulin Polyclonal antibody

Catalog Number: 21714-1-AP

7 Publications



Basic Information

Catalog Number: 21714-1-AP	GenBank Accession Number: BC140933	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 300 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7038	Recommended Dilutions: IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P01266	
Isotype: IgG	Full Name: thyroglobulin	
Immunogen Catalog Number: AG16343	Calculated MW: 2768 aa, 305 kDa	

Applications

Tested Applications: IHC, ELISA	Positive Controls: IHC : human thyroid cancer tissue,
Cited Applications: WB, IF, CoIP	
Species Specificity: human	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Yasuhiro Horibata	34331935	J Lipid Res	IF
Madison T. Wright	33208410	Mol Cell Proteomics	WB
Madison T Wright	33581410	Mol Cell Proteomics	CoIP

Storage

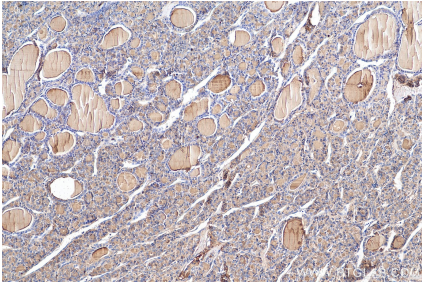
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

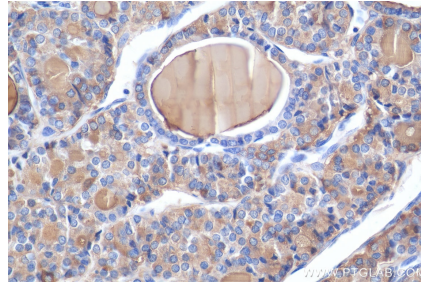
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 21714-1-AP (Thyroglobulin antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 21714-1-AP (Thyroglobulin antibody) at dilution of 1:200 (under 40x lens).