

Thyroglobulin Polyclonal Antibody
Catalog # AP74168**Specification****Thyroglobulin Polyclonal Antibody - Product Information**

Application	IHC
Primary Accession	P01266
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

Thyroglobulin Polyclonal Antibody - Additional Information**Gene ID** 7038**Other Names**

Thyroglobulin (Tg)

Dilution

IHC~~IHC-p 1:50-200, ELISA 1:10000-20000

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Thyroglobulin Polyclonal Antibody - Protein Information**Name** TG ([HGNC:11764](#))**Function**

Acts as a substrate for the production of iodinated thyroid hormones thyroxine (T4) and triiodothyronine (T3) (PubMed:17532758, PubMed:32025030). The synthesis of T3 and T4 involves iodination of selected tyrosine residues of TG/thyroglobulin followed by their oxidative coupling in the thyroid follicle lumen (PubMed:32025030). Following TG re-internalization and lysosomal-mediated proteolysis, T3 and T4 are released from the polypeptide backbone leading to their secretion into the bloodstream (PubMed:32025030). One dimer produces 7 thyroid hormone molecules (PubMed:32025030).

Cellular Location

Secreted. Note=Secreted into the thyroid follicle lumen (PubMed:19509106). Localizes to colloid globules, a structure formed in the thyroid follicle lumen consisting of cross-linked TG arranged in concentric layers (PubMed:11082042, PubMed:8626858).

Tissue Location

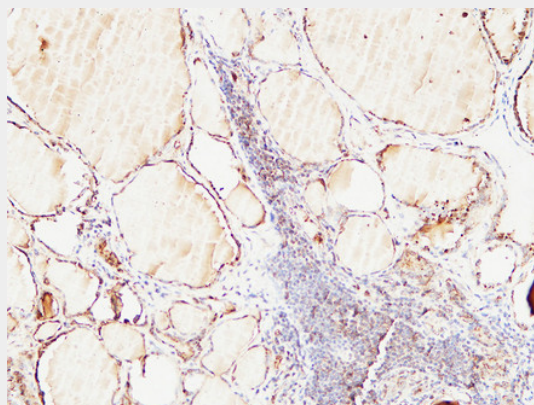
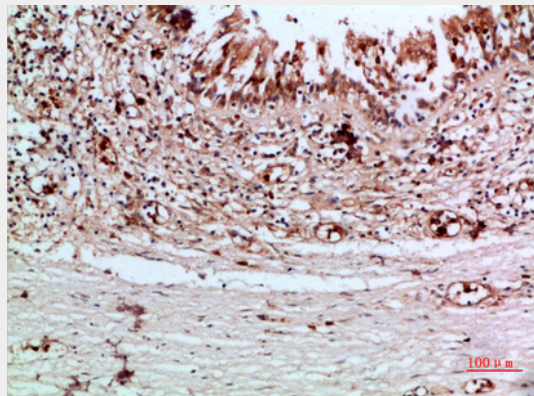
Specifically expressed in the thyroid gland.

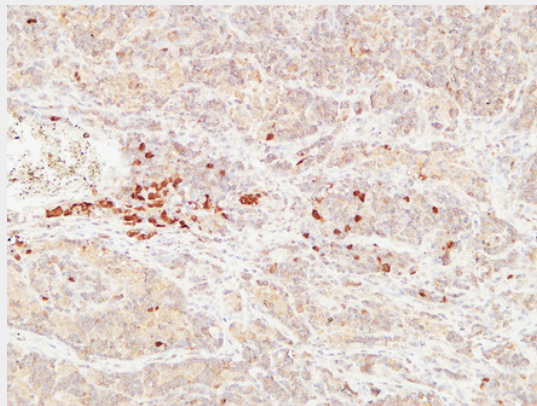
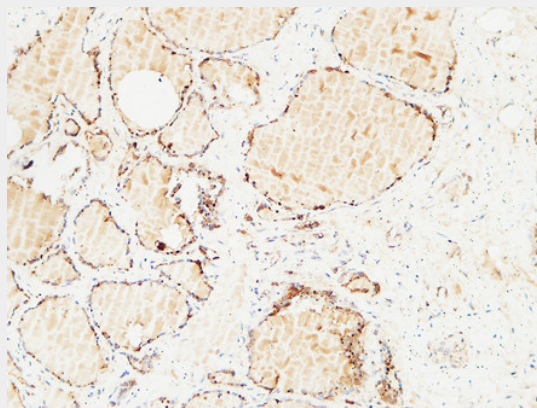
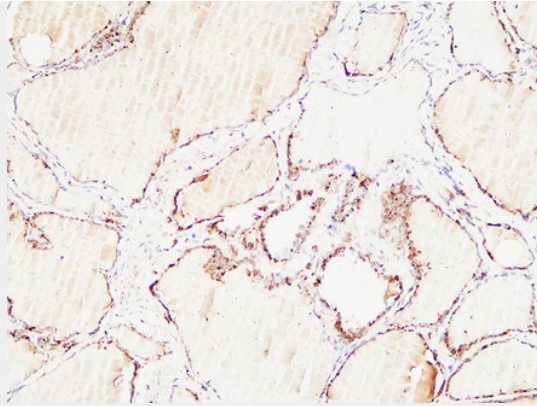
Thyroglobulin Polyclonal Antibody - Protocols

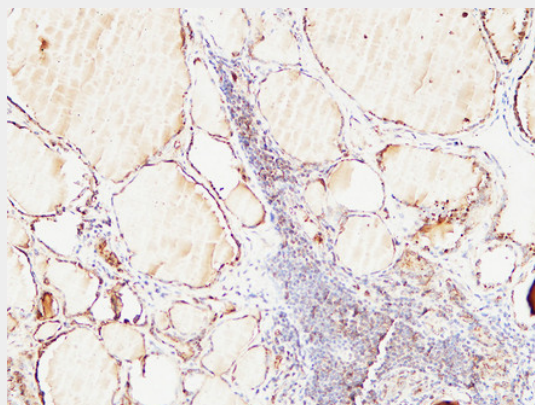
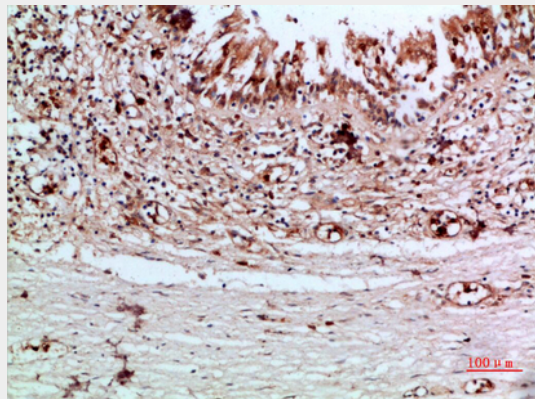
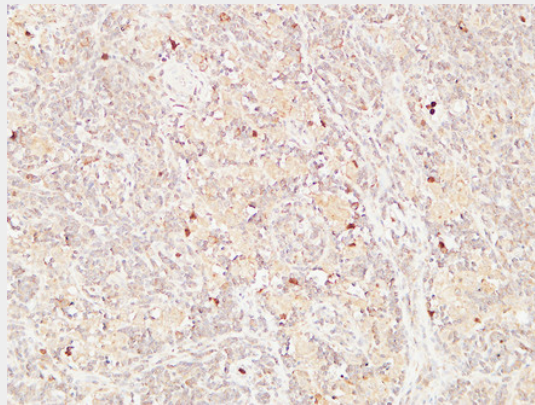
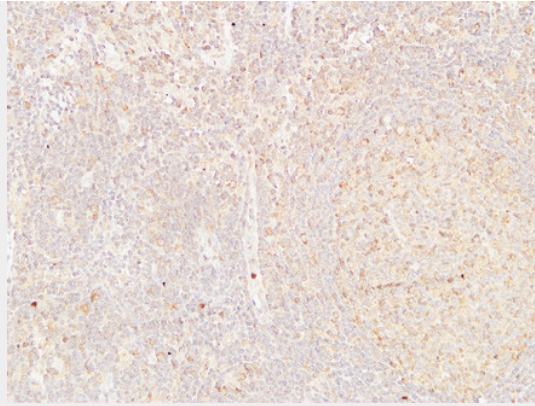
Provided below are standard protocols that you may find useful for product applications.

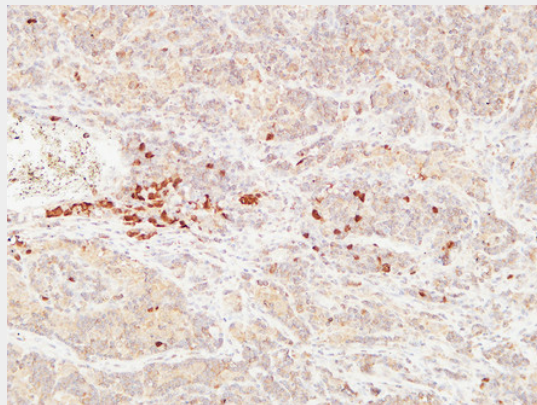
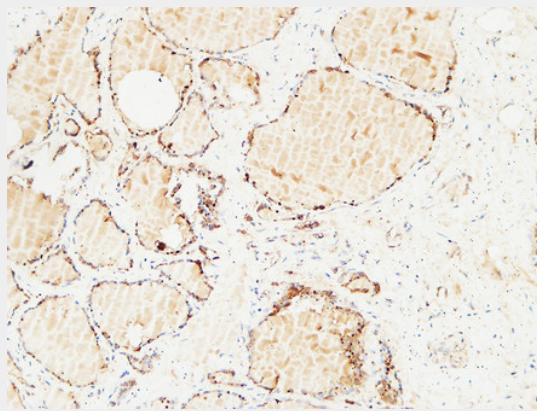
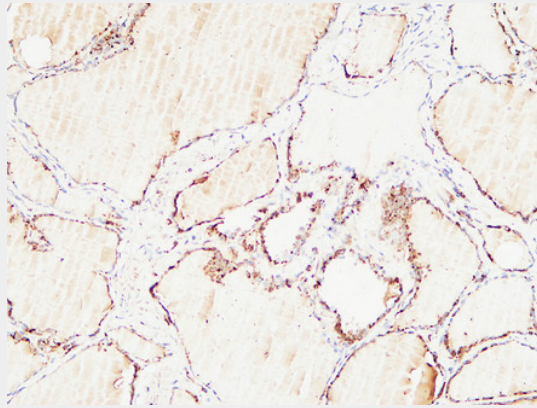
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

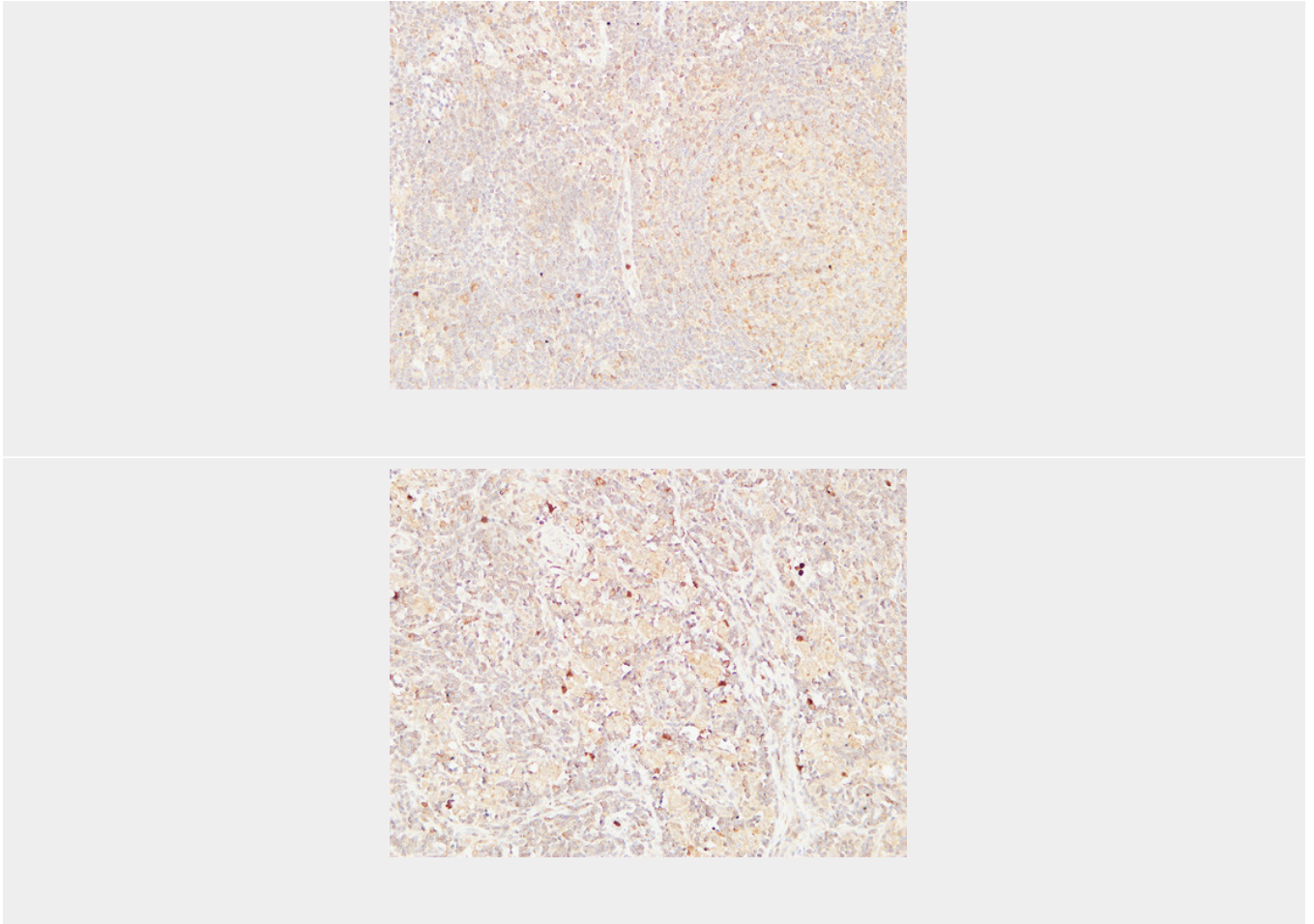
Thyroglobulin Polyclonal Antibody - Images











Thyroglobulin Polyclonal Antibody - Background

Precursor of the iodinated thyroid hormones thyroxine (T4) and triiodothyronine (T3).