

# Thyroglobulin Antibody

Rabbit mAb

Catalog # AP92173

## Product Information

---

<b>Application</b>	WB, IP
<b>Primary Accession</b>	<a href="#">P01266</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	AITD3; hTG; TDH3; TGN; Thyroglobulin;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	304790

## Additional Information

---

<b>Dilution</b>	WB 1:500~1:2000 IP 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human Thyroglobulin
<b>Description</b>	Precursor of the iodinated thyroid hormones thyroxine (T4) and triiodothyronine (T3).
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

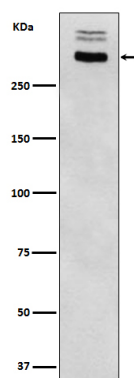
## Protein Information

---

<b>Name</b>	TG ( <a href="#">HGNC:11764</a> )
<b>Function</b>	Acts as a substrate for the production of iodinated thyroid hormones thyroxine (T4) and triiodothyronine (T3) (PubMed: <a href="#">17532758</a> , PubMed: <a href="#">32025030</a> ). 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: <a href="#">32025030</a> ). 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: <a href="#">32025030</a> ). One dimer produces 7 thyroid hormone molecules (PubMed: <a href="#">32025030</a> ).
<b>Cellular Location</b>	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).
<b>Tissue Location</b>	Specifically expressed in the thyroid gland.

## Images

---



Western blot analysis of Thyroglobulin expression in Human thyroid lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.