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Thyroglobulin Antibody

Rabbit mAb
Catalog # AP92050

Product Information

Application	WB, IHC, IF, ICC, IP, IHF
Primary Accession	P01266
Reactivity	Human
Clonality	Monoclonal
Other Names	AITD3; hTG; TDH3; Tg; TGN; Thyroglobulin;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	304790

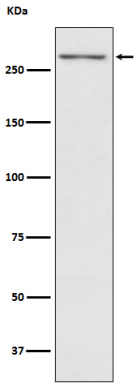
Additional Information

Dilution	WB 1:1000~1:5000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Thyroglobulin
Description	Precursor of the iodinated thyroid hormones thyroxine (T4) and triiodothyronine (T3).
Storage Condition and Buffer	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

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.

Images



Western blot analysis of Thyroglobulin expression in Human thyroid lysate.

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