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Anti-TG / Thyroglobulin Antibody (clone 2H11)

Mouse Anti Human Monoclonal Antibody
Catalog # ALS17384

Product Information

Application	IHC-P
Primary Accession	P01266
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Clone Names	2H11
Calculated MW	304790
Concentration (mg/ml)	0.2 mg/ml

Additional Information

Gene ID	7038
Alias Symbol	TG
Other Names	TG, AITD3, TDH3, Thyroglobulin, TGN
Target/Specificity	Human TG / Thyroglobulin
Reconstitution & Storage	PBS, 0.05% sodium azide. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Precautions	Anti-TG / Thyroglobulin Antibody (clone 2H11) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

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