

TG / Thyroglobulin Antibody (clone 2H11)
Mouse Monoclonal Antibody
Catalog # ALS11363**Specification**

TG / Thyroglobulin Antibody (clone 2H11) - Product Information

Application	IHC, WB
Primary Accession	P01266
Reactivity	Human, Mouse, Rat, Dog
Host	Mouse
Clonality	Monoclonal
Calculated MW	305kDa KDa

TG / Thyroglobulin Antibody (clone 2H11) - Additional Information**Gene ID** 7038**Other Names**

Thyroglobulin, Tg, TG

Target/Specificity

Human thyroglobulin protein. Hybridoma: Produced by the fusion between BALB/c mouse splenocytes and mouse myeloma SP2/0 cells after immunization with thyroglobulin from human thyroid gland using conventional hybridoma technology.

Reconstitution & Storage

+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions

TG / Thyroglobulin Antibody (clone 2H11) is for research use only and not for use in diagnostic or therapeutic procedures.

TG / Thyroglobulin Antibody (clone 2H11) - Protein Information**Name** TG ([HGNC:11764](#))**Function**

Acts as a substrate for the production of iodinated thyroid hormones thyroxine (T4) and triiodothyronine (T3) (PubMed:32025030, PubMed:17532758). 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:8626858, PubMed:11082042).

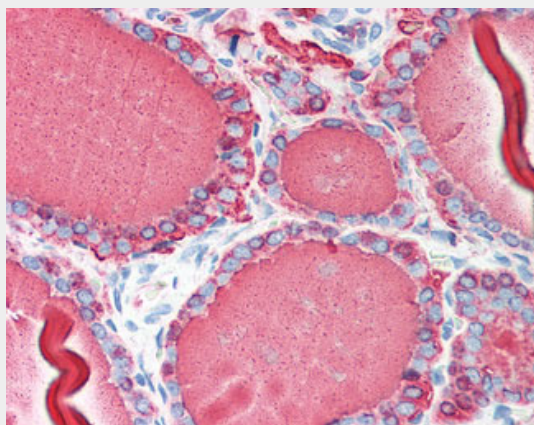
Tissue Location

Specifically expressed in the thyroid gland.

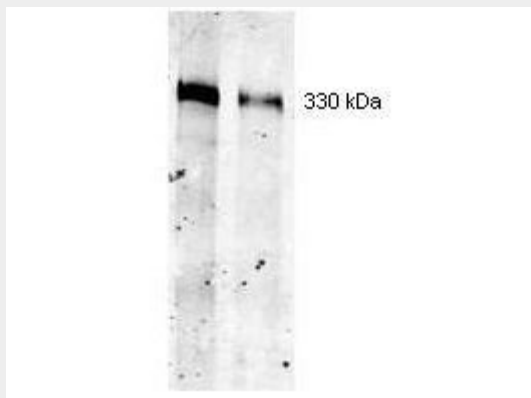
TG / Thyroglobulin Antibody (clone 2H11) - Protocols

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](#)

TG / Thyroglobulin Antibody (clone 2H11) - Images

Anti-TG / Thyroglobulin antibody IHC of human thyroid.



Anti-Thyroglobulin Antibody - Western Blot.

TG / Thyroglobulin Antibody (clone 2H11) - Background

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

TG / Thyroglobulin Antibody (clone 2H11) - References

- Malthiery Y.,et al.Eur. J. Biochem. 165:491-498(1987).
van de Graaf S.A.R.,et al.Eur. J. Endocrinol. 136:508-515(1997).
Nusbaum C.,et al.Nature 439:331-335(2006).
Malthiery Y.,et al.Eur. J. Biochem. 147:53-58(1985).
Parma J.,et al.J. Mol. Biol. 196:769-779(1987).