10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# 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'.