

## ARG66511 anti-TPO / Thyroid Peroxidase antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody recognizes TPO / Thyroid Peroxidase
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b, kappa
Target Name	TPO / Thyroid Peroxidase
Species	Human
Immunogen	Synthetic peptide derived from Human TPO / Thyroid Peroxidase.
Conjugation	Un-conjugated
Alternate Names	TPO; EC 1.11.1.8; TDH2A; Thyroid peroxidase; MSA; TPX

### Application Instructions

Application table	Application	Dilution
	IHC-P	1:100 - 1:500

**Application Note** IHC-P: Antigen Retrieval: Citric acid buffer (pH 6.0) was used.  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

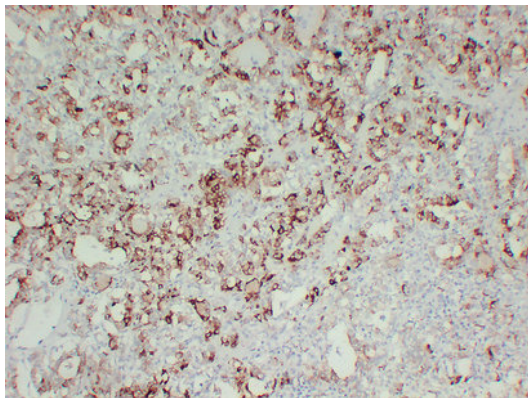
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

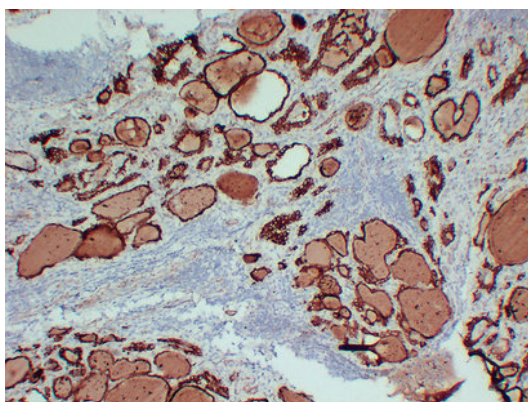
Gene Symbol	TPO
Gene Full Name	thyroid peroxidase
Background	This gene encodes a membrane-bound glycoprotein. The encoded protein acts as an enzyme and plays a central role in thyroid gland function. The protein functions in the iodination of tyrosine residues in thyroglobulin and phenoxy-ester formation between pairs of iodinated tyrosines to generate the thyroid hormones, thyroxine and triiodothyronine. Mutations in this gene are associated with several disorders of thyroid hormonogenesis, including congenital hypothyroidism, congenital goiter, and thyroid hormone organification defect IIA. Multiple transcript variants encoding distinct isoforms have been identified for this gene, but the full-length nature of some variants has not been determined. [provided by RefSeq, May 2011]
Function	Iodination and coupling of the hormonogenic tyrosines in thyroglobulin to yield the thyroid hormones T(3) and T(4). [UniProt]
Calculated Mw	103 kDa
PTM	Glycosylated.
	Heme is covalently bound through a H(2)O(2)-dependent autocatalytic process. Heme insertion is important for the delivery of protein at the cell surface.
	Cleaved in its N-terminal part. [UniProt]
Cellular Localization	Membrane; Single-pass type I membrane protein. Isoform 3: Cell surface. [UniProt]

## Images



ARG66511 anti-TPO / Thyroid Peroxidase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human follicular thyroid carcinoma stained with ARG66511 anti-TPO / Thyroid Peroxidase antibody at 1:200 (4°C, overnight). Antigen Retrieval: Citric acid buffer (pH 6.0) was used.



ARG66511 anti-TPO / Thyroid Peroxidase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human papillary thyroid carcinoma stained with ARG66511 anti-TPO / Thyroid Peroxidase antibody at 1:200 (4°C, overnight). Antigen Retrieval: Citric acid buffer (pH 6.0) was used.