

## ARG66882 anti-TPO / Thyroid Peroxidase antibody [SQab21249]

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [SQab21249] recognizes TPO / Thyroid Peroxidase
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Mouse
Clonality	Monoclonal
Clone	SQab21249
Isotype	IgG
Target Name	TPO / Thyroid Peroxidase
Species	Human
Immunogen	Synthetic peptide corresponding to 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 - 1:200
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

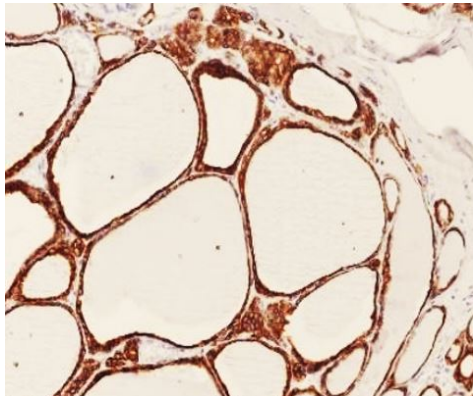
### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
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



ARG66882 anti-TPO / Thyroid Peroxidase antibody [SQab21249] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human thyroid gland tissue. Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). The tissue section was stained with ARG66882 anti-TPO / Thyroid Peroxidase antibody [SQab21249] for 30 min at RT.