

## Product datasheet for **DM418-05**

### Thyroid Peroxidase (TPO) Mouse Monoclonal Antibody [Clone ID: MoAb47]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MoAb47
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on paraffin embedded sections: diluted of 1:10-1:25 in an ABC method (30-60 minutes at room temperature) Positive Control: Thyroid
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human Thyroid Peroxidase (hTPO) purified from thyroid microsomes by immunoaffinity chromatography.
Specificity:	Reacts to Thyroid Peroxidase. Cellular Localization: Cytoplasmic
Formulation:	1mM EDTA buffer, pH 9.0 - containing sodium azide as preservative. State: Supernatant State: Liquid tissue culture supernatant
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	thyroid peroxidase
Database Link:	<a href="#">Entrez Gene 7173 Human P07202</a>



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**Background:**

Thyroid Peroxidase (TPO) is a transmembrane protein of 107kD containing a heme prosthetic group and it is present as dimmer on the apical surface of the thyroid follicular cells. TPO is the primary enzyme involved in thyroid hormone synthesis. Malignant thyroid tumors exhibit an anomaly in TPO resulting in lower affinity for anti-TPO. This antibody may be useful aid in the differentiation between the benign and malignant thyroid tumors.

**Synonyms:**

MSA; OTTHUMP00000115536; TDH2A; thyroperoxidase; TPX