Recombinant TPO (Thyroid Peroxidase) (Thyroid Marker) Antibody

Rabbit Monoclonal Antibody [Clone TPO/7088R]

Catalog No	Format	Size
7173-RBM17-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7173-RBM17-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7173-RBM17-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

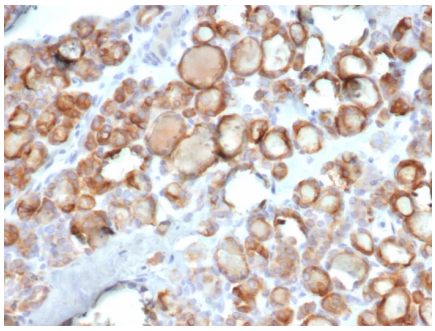
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

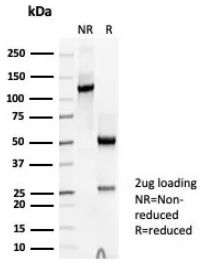
Clone	TPO/7088R
Immunogen	Recombinant fragment (around aa685-804) of the human Thyroid Peroxidase (TPO) protein (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	102.96kDa
Cellular Localization	Cell surface, Membrane
Species Reactivity	Human
Positive Control	Human thyroid carcinoma.

**Optimal dilution for a specific application should be determined.*

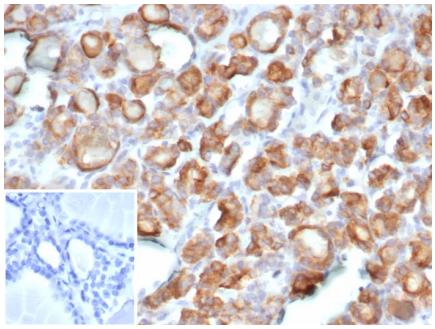
Product Images for Recombinant TPO (Thyroid Peroxidase) (Thyroid Marker) Antibody



Formalin-fixed, paraffin-embedded human thyroid carcinoma stained with Thyroid Peroxidase Recombinant Rabbit Monoclonal Antibody (TPO/7088R). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



SDS-PAGE Analysis Thyroid Peroxidase Recombinant Rabbit Monoclonal Antibody (TPO/7088R). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human thyroid carcinoma stained with Thyroid Peroxidase Recombinant Rabbit Monoclonal Antibody (TPO/7088R). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Thyroperoxidase (TPO) is a 933 amino acid, type I transmembrane glycoprotein that plays a key role in thyroid gland function and autoimmunity. It is present as a dimer on the apical surface of thyroid follicular cells. TPO 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.Â ?Malignant thyroid tumors exhibit an anomaly in TPO resulting in lower affinity for anti-TPO. This antibody may aid in the differentiation between benign and malignant thyroid tumors.

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.