

Mouse anti-Human TPO (Thyroid Peroxidase) Monoclonal Antibody | anti-TPO antibody

TPO (Thyroid Peroxidase) (Thyroid Marker) Mouse Monoclonal Antibody [Clone TPO/3701]

CATALOG # AAA215963	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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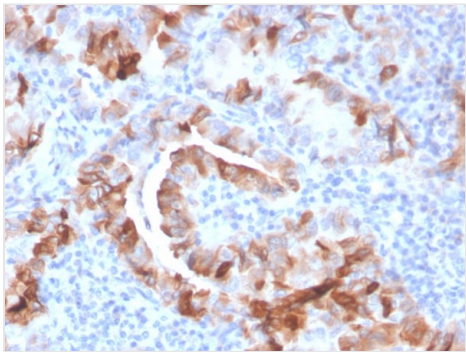
PRODUCT SYNONYMS

TPO (Thyroid Peroxidase); Monoclonal Antibody; TPO (Thyroid Peroxidase) (Thyroid Marker) Mouse Monoclonal Antibody [Clone TPO/3701]; TPO (Thyroid Peroxidase) (Thyroid Marker); MSA; TDH2A; Thyroid microsomal antigen; Thyroid peroxidase; Thyroperoxidase; TPO; TPX; anti-TPO antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse/IgG2b, kappa
Clone Number	TPO/3701
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Concentration	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (varies by lot)
Applicable Applications for anti-TPO antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant fragment of human TPO (around aa 685-804) (Exact sequence is proprietary)
Cellular Localization	Cytoplasmic and cell surface
Positive Control	Human thyroid carcinoma
Hu-chromosome Location	2p25.3
Unigene	467554
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C Antibody without azide: store at -20 to -80 degree C Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human thyroid carcinoma stained with Thyroid Peroxidase Mouse Monoclonal Antibody (TPO/3701).

ADDITIONAL INFORMATION

Related Product Information for anti-TPO antibody	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 phenoxo-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. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	28558982
NCBI GeneID	7173
NCBI Accession #	NP_000538.3
NCBI GenBank Nucleotide #	NM_000547.5
UniProt Accession #	P07202; P09934; P09935; Q8IUL0; Q8NF94; Q8NF95; Q8NF96; Q8NF97; Q8TC19
Molecular Weight	102,963 Da
NCBI Official Full Name	thyroid peroxidase isoform a
NCBI Official Synonym Full Names	thyroid peroxidase
NCBI Official Symbol	TPO
NCBI Official Synonym Symbols	MSA; TPX; TDH2A
NCBI Protein Information	thyroid peroxidase; thyroperoxidase; thyroid microsomal antigen
UniProt Protein Name	Thyroid peroxidase
UniProt Gene Name	TPO
UniProt Synonym Gene Names	TPO
UniProt Entry Name	PERT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.