



Anti-Thyroid Peroxidase monoclonal antibody, clone NM12U112 (DCABH-20054)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	MAb to Thyroid Peroxidase Monoclonal Antibody to Human Thyroid Peroxidase
Antigen Description	Thyroid peroxidase or thyroperoxidase (TPO) is an enzyme expressed mainly in the thyroid that liberates iodine for addition onto tyrosine residues on thyroglobulin for the production of thyroxine (T4) or triiodothyronine (T3), the thyroid hormones. In humans, thyroperoxidase is encoded by the TPO gene.
Specificity	Human thyroid peroxidase
Target	Thyroid Peroxidase
Immunogen	Human thyroid peroxidase.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	NM12U112
Affinity Constant	5×10^9 L/mol
Purification	>95% pure (SDS-PAGE). Protein A chromatography
Conjugate	Unconjugated
Applications	ELISA, CLIA, RIA, IHC, WB
Procedure	Cardiac markers Antibodies

Format	Purified, Liquid
Concentration	2.0mg/ml (OD280X0.7)
Size	1 mg
Buffer	PBS, pH 7.4
Preservative	None
Storage	Store at 2-8°C.

GENE INFORMATION

Gene Name	TPO thyroid peroxidase [Homo sapiens]
Official Symbol	TPO
Synonyms	TPO; thyroid peroxidase; TPX; thyroperoxidase; thyroid microsomal antigen; MSA; TDH2A;
Entrez Gene ID	7173
Protein Refseq	NP_000538
UniProt ID	P07202
Chromosome Location	2p25
Pathway	Amine-derived hormones, organism-specific biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;
Function	calcium ion binding; heme binding; iodide peroxidase activity; oxidoreductase activity; peroxidase activity;