



Mouse Anti-Human Thyroid peroxidase monoclonal antibody, clone NN23 (CABT-ZB914)

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

PRODUCT INFORMATION

Specificity	It reacts with Human Thyroid peroxidase
Target	TPO
Immunogen	Recombinant Human Thyroid peroxidase Protein
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	NN23
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA(det) We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB552 - CABT-ZB914 This antibody will detect Thyroid peroxidase in antibody pair set. [ABPR-ZB128]
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human Thyroid peroxidase. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	Purified, Liquid

Concentration	Lot specific
Size	50 µL, 100 µL, 200 µL, 1 mL
Buffer	PBS
Preservative	None
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	Thyroid peroxidase is a membrane-bound glycoprotein which belongs to the peroxidase family, XPO subfamily. It contains 1 EGF-like domain and 1 Sushi (CCP/SCR) domain. Thyroid Peroxidase represents one of the main autoantigenic targets in autoimmune thyroid disease of humans. It used to be taken as the formerly so-called `microsomal antigen` several years ago. As an integral membrane glycoprotein it is restricted to the apical plasma membrane of the follicular epithelial cells and comprises two identical subunits of approx 100 kDa molecular weight. Thyroid peroxidase is an enzyme expressed abundantly in the thyroid that liberates iodine for addition onto tyrosine residues on thyroglobulin for the production of thyroxine or triiodothyronine, thyroid hormones. Thyroid peroxidase plays a key role in the thyroid hormone biosynthesis by catalysing both the iodination of tyrosyl residues and the coupling of iodotyrosyl residues in thyroglobulin to form precursors of the thyroid hormones T4 and T3.
Keywords	TPO; thyroid peroxidase; MSA; TPX

GENE INFORMATION

Synonyms	TPO; thyroid peroxidase; MSA; TPX; TDH2A; thyroperoxidase; thyroid microsomal antigen
Entrez Gene ID	7173
UniProt ID	P40225