

Human Thyroid Peroxidase (TPO) ELISA Kit | TPO elisa kit

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CATALOG #
AAA140195

REACTIVITY
Human

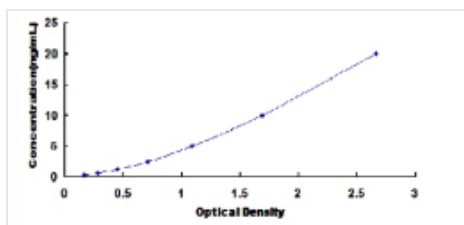
PRODUCT SYNONYMS

Thyroid Peroxidase (TPO); Human Thyroid Peroxidase (TPO) ELISA Kit; TPX; thyroperoxidase; TPO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Thyroid Peroxidase (TPO). No significant cross-reactivity or interference between Thyroid Peroxidase (TPO) and analogues was observed.
Sequence Length	832
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.78-50ng/mL
Sensitivity	0.29ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Thyroid Peroxidase (TPO) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Thyroid Peroxidase (TPO) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TPO elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Thyroid Peroxidase (TPO). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Thyroid Peroxidase (TPO). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Thyroid Peroxidase (TPO), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Thyroid Peroxidase (TPO) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for TPO elisa kit	Enzyme & Kinase; Endocrinology; Hormone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	332078490
NCBI GeneID	7173
NCBI Accession #	NP_001193673.1
NCBI GenBank Nucleotide #	NM_001206744.1
UniProt Accession #	P07202; P09934; P09935; Q8IUL0; Q8NF94; Q8NF95; Q8NF96; Q8NF97; Q8TCI9
Molecular Weight	92,063 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
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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/thyroid-peroxidase-tpo/140195>