

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

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CATALOG #
AAA330370

REACTIVITY
Human

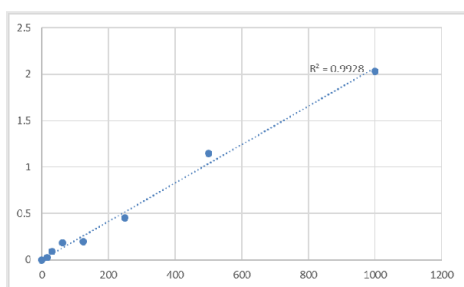
PRODUCT SYNONYMS

Thyroid-Peroxidase (TPO); Human Thyroid-Peroxidase (TPO) ELISA Kit; TPO; MSA; TDH2A; TPX; OTTHUMP00000115536; thyroid microsomal antigen; thyroperoxidase; TPO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Thyroid-Peroxidase (TPO) ELISA Kit has high sensitivity and excellent specificity for detection of Human TPO. No significant cross-reactivity or interference between Human TPO and analogues was observed.
Sequence Length	933
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Thyroid-Peroxidase (TPO) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TPO elisa kit	Description: This Human Thyroid-Peroxidase (TPO) ELISA Kit employs a two-site sandwich ELISA to quantitate TPO in samples. An antibody specific for TPO has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TPO present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TPO is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TPO bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Thrombopoietin (TPO), is a key regulator of megakaryocytopoiesis and thrombopoiesis in vitroand in vivo. TPO has been purified and cloned from several species including mouse, rat, and dog. The proteins from the various species are highly conserved, exhibiting from 69-75% sequence identity at the amino acid sequence level. Mature TPO can be divided into two domains: the amino-terminal half with homology to erythropoietin (Epo) and the carboxy-terminal half rich in serine, threonine and proline residues and containing seven potential N-linked glycosylation sites. The carboxy terminus domain of TPO has been shown to regulate the specific activity and circulating half-life of TPO. The carboxy-terminal may also have a role in promoting the efficient biosynthesis and secretion of TPO.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	28558982
NCBI GeneID	7173
NCBI Accession #	NP_000538.3
NCBI GenBank Nucleotide #	NP_000538.3
UniProt Accession #	P07202
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.