

Human Thyroid-Peroxidase (TPO) ELISA Kit

Catalog No: #EK6030



Package Size: #EK6030-1 48T #EK6030-2 96T

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Description

Product Name	Human Thyroid-Peroxidase (TPO) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MSA; TDH2A; TPX; OTTHUMP00000115536[thyroid microsomal antigen]thyroperoxidase
Accession No.	P07202
Uniprot	P07202
GeneID	7173;
Storage	<p>The stability of ELISA 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.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:5.8 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay 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 anyTPO 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.

Product Overview: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.

Note: This product is for in vitro research use only