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Rat Thyroid-Peroxidase, TPO ELISA Kit

Product Code	CSB-E08352r
Abbreviation	TPO
Protein Biological Process 1	Oxidative Stress
Target Name	thyroid peroxidase
Uniprot No.	P14650
Alias	MSA, TDH2A, TPX, OTTHUMP00000115536 thyroid microsomal antigen thyroperoxidase
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Hydrogen peroxide
Sample Types	serum, plasma, tissue Homogenates
Detection Range	2.5 ng/mL-40ng/mL
Sensitivity	2.5 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	Тро
Tag Info	quantitative
Protein Description	Competitive
Description	This Rat TPO ELISA Kit was designed for the quantitative measurement of Rat TPO protein in serum, plasma, tissue Homogenates. It is a Competitive ELISA kit, its detection range is 2.5 ng/mL-40ng/mL and the sensitivity is 2.5 ng/mL.
Target Details	This gene encodes a membrane-bound glycoprotein. The encoded protein acts as an enzyme and plays a central role in thyroid gland function. The protein functions in the iodination of tyrosine residues in thyroglobulin and phenoxy- ester formation between pairs of iodinated tyrosines to generate the thyroid hormones, thyroxine and triiodothyronine. Mutations in this gene are associated with several disorders of thyroid hormonogenesis, including congenital hypothyroidism, congenital goiter, and thyroid hormone organification defect IIA. Multiple transcript variants encoding distinct isoforms have been identified for

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this gene. Additional splice variants have been described but their biological natures have not been determined.

Product Precision	 Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess. 						
Linearity	concentrat	tions of rat TPC) in various	matrices and	e spiked with high diluted with the Sample dynamic range of the assay.		
Recovery	various ma directed in Sample Ty Serum (n=	The recovery of rat TPO s various matrices was eval directed in the Sample Pro Sample Type Serum (n=5) EDTA plasma (n=4)		mples were dil	ut the range of the assay in uted prior to assay as Range 87-102 89-100		
Typical	These standard curves are provided for demonstration only. A standard curve						

should be generated for each set of samples assayed.

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