

Rat thyroid peroxidase ELISA Kit | TPO elisa kit

Rat Thyroid-Peroxidase, TPO ELISA Kit

CATALOG #
AAA80387

REACTIVITY
Rat

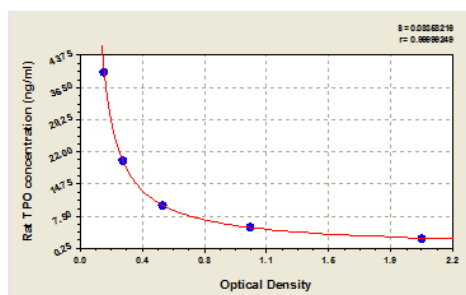
PRODUCT SYNONYMS

thyroid peroxidase; Rat Thyroid-Peroxidase; TPO ELISA Kit; MSA; TDH2A; TPX; OTTHUMP00000115536; thyroid microsomal antigen; thyroperoxidase; TPO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat TPO. No significant cross-reactivity or interference between Rat TPO and analogues was observed.
Sequence Length	914
Samples	Serum, plasma, tissue homogenates
Assay Type	Competitive
Detection Range	2.5 ng/ml-40ng/ml
Sensitivity	1.25 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Oxidative Stress
Protein Biological Process 3	Hydrogen peroxide
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TPO elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. An antibody specific to TPO has been pre-coated onto a microplate. Standards or samples are added to the appropriate microtiter plate wells with biotin-conjugated TPO and incubated. A competitive inhibition reaction is launched between TPO (Standards or samples) and Biotin-conjugated TPO with the pre-coated antibody specific for TPO. The more amount of TPO in samples, the less antibody bound by Biotin-conjugated TPO. Then Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The substrate solutions are added to the wells, respectively. And the color develops in opposite to the amount of TPO in the sample. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	129832
NCBI GeneID	54314
UniProt Accession #	P14650
Molecular Weight	101,460 Da
NCBI Official Full Name	Thyroid peroxidase
NCBI Official Synonym Full Names	thyroid peroxidase
NCBI Official Symbol	Tpo
NCBI Protein Information	thyroid peroxidase
UniProt Protein Name	Thyroid peroxidase
UniProt Gene Name	Tpo
UniProt Synonym Gene Names	TPO
UniProt Entry Name	PERT_RAT

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/tpo-rat-elisa-kits/thyroid-peroxidase/80387>