Human Translationally-Controlled Tumor Protein (TPT1) ELISA Kit | TPT1 elisa kit

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CATALOG #	REACTIVITY
AAA330365	**Human**

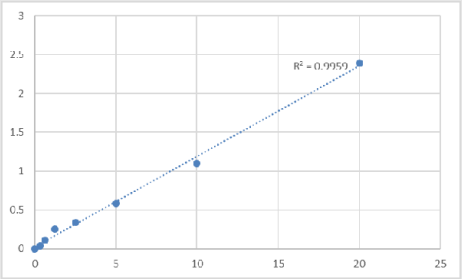
PRODUCT SYNONYMS

Translationally-Controlled Tumor Protein (TPT1); Human Translationally-Controlled Tumor Protein (TPT1) ELISA Kit; TPT1; FLJ27337; HRF; TCTP; p02; fortilin; histamine-releasing factor; TPT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Translationally-controlled tumor protein (TPT1) ELISA Kit has high sensitivity and excellent specificity for detection of Human TPT1. No significant cross-reactivity or interference between Human TPT1 and analogues was observed.
Sequence Length	172
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 Translationally-controlled tumor protein (TPT1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TPT1 elisa kit	Description: This Human Translationally-controlled tumor protein (TPT1) ELISA Kit employs a two-site sandwich ELISA to quantitate TPT1 in samples. An antibody specific for TPT1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TPT1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TPT1 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 TPT1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: TCTP, is an essential component of the tuberous sclerosis-RHEB pathway. Reducing Drosophila Tctp levels reduced cell size, cell number, and organ size, which mimics Drosophila Rheb mutant phenotypes. Drosophila Tctp is genetically epistatic to Tsc1 and Rheb, but acts upstream of S6K, a downstream target of Rheb. Drosophila Tctp directly associated with Rheb and displayed guanine nucleotide exchange activity with it in vivo and in vitro. Human TCTP showed similar biochemical properties compared to Drosophila Tctp and could rescue Drosophila Tctp mutant phenotypes, suggesting that the function of TCTP in the TSC pathway is evolutionarily conserved. Overexpression of TSAP6 increased the level of TPT1 in exosome preparations and consistently enhanced TPT1 secretion.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507669
NCBI GeneID	7178
NCBI Accession #	NP_003286.1
NCBI GenBank Nucleotide #	NP_003286.1
UniProt Accession #	P13693
NCBI Official Full Name	translationally-controlled tumor protein isoform 2
NCBI Official Synonym Full Names	tumor protein, translationally-controlled 1
NCBI Official Symbol	TPT1
NCBI Official Synonym Symbols	HRF; p02; p23; TCTP
NCBI Protein Information	translationally-controlled tumor protein
UniProt Protein Name	Translationally-controlled tumor protein
UniProt Gene Name	**TPT1**
UniProt Synonym Gene Names	TCTP; HRF
UniProt Entry Name	TCTP_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/translationally-controlled-tumor-protein-tpt1/330365