

Mouse Translationally-controlled tumor protein (TPT1)
ELISA Kit



Catalog No: #EK6021

Package Size: #EK6021-1 48T #EK6021-2 96T

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Description

Product Name	Mouse Translationally-controlled tumor protein (TPT1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	FLJ27337; HRF; TCTP; p02; fortilin histamine-releasing factor
Accession No.	P63028
Uniprot	P63028
GeneID	22070;
Storage	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. 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).

Application Details

Detect Range:0.312-20 ng/mL
Sensitivity:0.113 ng/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 TPT1 in samples. An antibody specific for TPT1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTPT1 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.Product Overview: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.

Note: This product is for in vitro research use only