

Human Tripeptidyl-peptidase 1 (TPP1) ELISA Kit

Catalog No: #EK6026



Package Size: #EK6026-1 48T #EK6026-2 96T

Orders: order@signalwayantibody.com

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Description

Product Name	Human Tripeptidyl-peptidase 1 (TPP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CLN2; GIG1; LPIC; MGC21297; ceroid-lipofuscinosis; neuronal 2; late infantile (Jansky-Bielschowsky disease) growth-inhibiting protein 1 lysosomal pepstatin insensitive protease tripeptidyl aminopept
Accession No.	O14773
Uniprot	O14773
GenID	1200;
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:0.156-10 ng/mL

Sensitivity:0.055 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 TPP1 in samples. An antibody specific for TPP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTPP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TPP1 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 TPP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Tripeptidyl-peptidase 1 is a member of the sedolisin family of serine proteases. The protease functions in the lysosome to cleave N-terminal tripeptides from substrates, and has weaker endopeptidase activity.

It is synthesized as a catalytically-inactive enzyme which is activated and auto-proteolyzed upon acidification. Mutations in this gene result in late-infantile neuronal ceroid lipofuscinosis, which is associated with the failure to degrade specific neuropeptides and a subunit of ATP synthase in the lysosome.Detected in all tissues examined with highest levels in heart and placenta and relatively similar levels in other tissues.

Note: This product is for in vitro research use only