Mouse Alpha-tocopherol transfer protein (TTPA) ELISA Kit

Catalog No: #EK5977

Package Size: #EK5977-1 48T #EK5977-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Alpha-tocopherol transfer protein (TTPA) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	ATTP; AVED; TTP1; alphaTTP;
Accession No.	Q8BWP5
Uniprot	Q8BWP5
GeneID	50500;
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 TTPA in samples. An antibody specific for TTPA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTTPA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TTPA 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 TTPA bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:TTPa encodes a soluble protein that binds alpha-trocopherol, a form of vitamin E, with high selectivity and affinity. This protein plays an important role in regulating vitamin E levels in the body by transporting vitamin E between membrane vesicles and facilitating the secretion of vitamin E from hepatocytes to circulating lipoproteins. Mutations in this gene cause hereditary vitamin E deficiency (ataxia with vitamin E deficiency, AVED) and retinitis pigmentosa.

Using rat alpha-Ttp to screen a liver cDNA library, followed by PCR, Arita et al. (1995) cloned full-length human alpha-TTP. The deduced 278-amino acid protein has a calculated molecular mass of 31.7 kD and shares 94% identity with rat alpha-Ttp. Northern blot analysis of several human tissues detected a 4.5-kb alpha-TTP transcript in liver only.

Note: This product is for in vitro research use only