Mouse Phosphinothricin acetyltransferase (PAT) ELISA Kit

Catalog No: #EK11185

Package Size: #EK11185-1 48T #EK11185-2 96T

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Description

Product Name	Mouse Phosphinothricin acetyltransferase (PAT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
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:15.6-1000 pg/mL

Sensitivity:7.5 pg/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 PAT in samples. An antibody specific for PAT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPAT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PAT 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 PAT bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Members of the perilipin family, such as PLIN5, coat intracellular lipid storage droplets and protect them from lipolytic degradation.

By searching EST databases using a conserved perilipin motif, Dalen et al. (2007) identified human PLIN5, which they called LSDP5. The predicted 463-amino acid protein is 74% identical to the mouse protein. Northern blot analysis of human tissues revealed expression of a major 2.5-kb transcript in skeletal muscle and liver, with weaker expression in heart and kidney. In heart, a 5.0-kb transcript was also expressed. Fluorescence microscopy demonstrated expression of mouse Lsdp5 around lipid storage droplets in transfected cells. Lsdp5 expression was upregulated by fasting independently of Ppara.

Note: This product is for in vitro research use only